



FEMAS Sector Note No. 14 – Biofuel Products

These Sector Notes apply to businesses producing [or placing on the market](#) By-Products of Biofuels for use [as](#) animal feed.

These Notes are not exhaustive, 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

By-products of Biofuels	By-products of bioethanol production include: distillers grains with or without solubles (which may be marketed dried or moist) and dried yeast. By-products of biodiesel production include: glycerol (glycerine). Additional materials may be made available as processes evolve.
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2 Sector-Specific Notes

HACCP and Feed Safety Risk Assessment		
B 1.7	Interpretation	<p><i>Sector-specific potential hazards include but are not limited to:</i></p> <ul style="list-style-type: none"> • <i>Residual methanol present in glycerine (industry guidance is <0.5% for safety reasons)</i> • <i>Levels of Potassium and Sodium</i> • <i>Potential presence of Mycotoxins due to growing, harvest or storage conditions</i> • <i>The concentration of mycotoxins in by-products/ co-products</i> • <i>The use of antimicrobials</i>

Raw Materials and Raw Material Suppliers		
C 1	Requirement	<p>Participants must demonstrate that by-products from biodiesel production intended for animal feeding do not originate from oils or fats which are banned under EU Regulations 1069/2009 or 183/2005 as amended.</p>

Sales Contracts / Agreements / Feed Specifications		
F 1.1	Interpretation	<p>Where glycerol offered for feed use contains Sodium, Potassium or other residues arising from processing, this should be stated in the specification.</p>

Premises		
G 1.13	Requirement	<p>When Cleaning in Place (CIP) systems are in operation, applicants must be able to demonstrate that residual cleaning agents are not present in Biofuel By-products at levels that may be detrimental to livestock.</p>
G 1.13	Interpretation	<p><i>This includes antimicrobials where they are used.</i></p>



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