



Quality specification		<b>IKD:II.– ŠpK 18</b>
<b>ANIMAL FATS - Category 3</b> (animal by-products or derived products)		<b>Edition: 2</b>
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		<b>Validity: 11.06.2015</b>

**Description of raw material:**

Animal by-products or derived products, Material of Category 3 (pursuant to Article 10 of Regulation (EC) No. 1069/2009):

c) Animal by-products from poultry and hares killed at the farm pursuant to Article 1 par. 3 letter d) of Regulation (EC) No. 853/2004, that did not manifest any symptoms of a disease infective to humans or animals;

f) Products of animal origin or foodstuffs containing products of animal origin that are not intended for human consumption due to commercial reasons or due to production or other deficiencies that do not represent any risk for public health or for health of animals;

j) Animal by-products from water animals originating from premises or facilities producing products intended for human consumption;

o) Fat tissue from animals that did not demonstrate any symptoms of a disease infective through this material to humans or animals and that were killed at the slaughter-house and that were after inspection before their killing acknowledged as suitable for killing for human consumption in accordance with the legal regulations of the Community;

p) Kitchen waste save the waste specified in Article 8 letter f).

**Instruction for the use of the raw material:**

The processing method (pursuant to Regulation of the EU Commission No. 142/2011, Chapter IV, Section 2, paragraph D) Biodiesel production process based on transesterification of fat fractions of animal by-products of category 3, where triglycerides of fatty acids are transformed to fatty acid methyl ester (FAME). Glycerine is released as the by-product that is used after separation of fatty acids and refining as the fodder raw materials or for technical purposes.

**Definition of the end point of production chain:**

Final products FAME and glycerol represent the end point of production chain in accordance with the provision of Article 5 par. 2 Regulation (EC) No. 1069/2009 and equipment according to Article 3 par. a) and b) of the EU Commission Regulation No. 142/2011.


FAME (biodiesel) is used as biofuel, admixture to fossil diesel; glycerol is used in the fodder sector, admixture to fodder mixtures.

**Quality requirements**

Animal by-products or derived products, Material of Category 3 must meet the following parameters:

To be completed only in case of a change.

<b>Change No.:</b>	<b>Change effective date:</b>	<b>Verified by:</b>
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Parameters	Unit	Limit values	Testing method
Acid number	mg KOH/g	max 10	EN 14 104
FFA (free fatty acids)	% wt	max 5	EN 14 104
Water content	% wt	max 0.50	STN EN ISO 12937
Impurity content	% wt	max 0.15	EN12 662
Microbiological parameters according to the EU Commission Regulation No. 142/2011	<i>Salmonella</i> : non-present in 25 g: n = 5, c = 0, m = 0, M = 0 <i>Enterobacteriaceae</i> : n = 5, c = 2; m = 10; M = 300 v 1 g		

**Treatment:** Depending on the type of the material/raw materials according to the Regulation (EC) No. 1069/2009 and the EU Commission Regulation No. 142/2011.

**Storage:**

In dry, clean and well closed containers/tanks at temperature of min 50 °C.  
 Requirements for material: stainless steel, carbon steel for short-term storage.

**Method of packaging:**

Transportation tank (container), insulated or heated (according to the distance of the transported product) for provision of temperature of the transported product of min 50 °C.

**Identification:**

Pursuant to the EU Commission Regulation No. 142/2011, Annex VIII, Chapter II, in the form of a Label that shall be placed on the package, container or vehicle with defined identification of Category 3 – identification with green colour.

**Requirements for transportation:**

According to the EU Commission Regulation No. 142/2011, Annex VIII, Chapter I, Section 1:

1. The raw material can be transported only by the registered/approved carrier (approval number from RVPS)
2. Transportation vehicles, tanks, carriage containers and semi-trailers must be sealed.
3. Transportation vehicles, tanks, carriage containers and semi-trailers must be dry and clean before the use and must be cleaned and/or disinfected in such a way to prevent cross contamination.
4. The transported raw material must be protected against effects of weather.

**Required documentation:**

1. Commercial documents and health certificates:

Pursuant to the EU Commission Regulation No. 142/2011, Annex VIII, Chapter III, the “Commercial document” form must be issued for animal by-products or derived products, Material Category 3 to the shipment.

2. Label

3. Quality certificate/Quality attest with the following parameters: acid number/FFA, water content, impurity content, microbiological parameters.

4. Stating product KN

**Taking of samples and laboratory analyses:**

According to work instructions and testing procedures specified in the Manual of Methods.

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