

## Data Sheet for Feed Materials

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| <b>Manufacturer / distributor</b>                                                                   | Bunge Deutschland GmbH<br>Bonadiesstr. 3-5<br>68169 Mannheim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Feeding stuff / product</b>                                                                      | <b>Rape seed meal feed<br/>(No. 2.14.7 of the Catalogue of feed materials)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product description</b>                                                                          | Product of oil manufacture, obtained by extraction and appropriate heat treatment of rape seed expeller. Only when produced at an integrated crushing and refining site, the product may contain up to <ul style="list-style-type: none"> <li>— 1 % of the sum of used bleaching earth and filter aid (e.g. diatomaceous earth, amorphous silicates and silica, phyllosilicates and cellulosic or wood fibres)</li> <li>— 1,3 % crude lecithins</li> <li>— 2 % soap stocks.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Information about the production process</b>                                                     | Rape seed meal feed with stock is obtained as a co-product of oil production from rapeseed. After cleaning the rapeseed, approximately half of the oil is initially removed by pressing. The remaining oil is extracted from the press cake using hexane. During the subsequent toasting process, the hexane is recovered, while anti-nutritional substances, such as glucosinolates, are removed or reduced, thereby improving the nutritional value of the feed. Oilseed components as well as co-products and processing aids generated during integrated processing (e.g. crude lecithin, soapstocks and used bleaching earth) may, where applicable, be returned to the meal.<br>A detailed description of the processing process is provided in the „EFISC Guide – Sector reference document on the manufacturing of safe feed materials from oilseed crushing and vegetable oil refining“ <sup>1</sup> . |
| <b>Information about the use of processing aids</b>                                                 | During the processing of the seed, the following substances may be used: hexane for extraction, direct steam for toasting and, where applicable, water. To prevent caking during bulk storage and transport, feed additives authorised under feed legislation and/or used bleaching earth may be used as anti-caking agents, where applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Information about composition</b>                                                                | Rape seed meal feed with stock contains <ul style="list-style-type: none"> <li>approx. 31,5% crude protein</li> <li>approx. 13% crude fibre</li> <li>approx. 2,5% crude fat</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Details about relevant undesirable substances within the scope of risk-oriented self-control</b> | Regular monitoring of undesirable substances in accordance with the relevant applicable legal regulations and the requirements for controls plans for industry-specific certifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

The above information is for information purposes only and does not constitute a contractual assurance of product properties. The sales agreements of the sales contract apply. The contract numbers are indicated on the delivery notes.

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| <b>Information regarding shelf life, storage and transport</b> | Rape seed meal feed with stock is a highly digestible protein feed which should preferably not be stored for longer than 3 months. Appropriate, controlled conditions must be ensured during storage. In order to prevent microbiological deterioration, it should be stored under dry conditions. The guidelines and standards for feed transport must be observed during transport. |
| <b>Safety instructions</b>                                     | Rape seed meal feed with stock is non-toxic, biodegradable, and does not require any particular safety measures with respect to handling and transport.<br>Safety data sheets are available for more detailed information <sup>1</sup> .                                                                                                                                              |
| <b>Information on critical ingredients</b>                     | Residues of seed contaminants in the meal cannot be excluded.                                                                                                                                                                                                                                                                                                                         |

<sup>1</sup> to be obtained from the manufacturer/distributor

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