

Data Sheet for Feed Materials

Manufacturer / distributor	Bunge Deutschland GmbH Bonadiesstr. 3-5 D-68169 Mannheim
Feeding stuff / product	Raw plant glycerine (No. 13.8.1 of the Catalogue of feed materials)
Product description	By-product obtained from the production of biodiesel (methyl esters of fatty acids) by transesterification of vegetable oils (rapeseed).
Information about the production process	Vegetable oils and fats consist predominantly of triglycerides, which are triesters formed from the trivalent alcohol glycerol (glycerin) and three fatty acid molecules. For biodiesel production, these oils and fats are transesterified with methanol in the presence of a catalyst (sodium methylate) to produce fatty acid methyl esters (biodiesel). During this process, glycerin is generated as a co-product, while sodium salts of fatty acids (soaps) are formed as a by-product. The mixture consisting of glycerin, methanol, fatty acids, soaps, catalyst, and water is physically separated from the fatty acid methyl esters. Acidification with hydrochloric acid converts the soaps into fatty acids and sodium chloride. The fatty acids and soaps are then separated from the crude glycerin by phase separation. Subsequently, the crude glycerin is neutralized with sodium hydroxide, and the methanol is removed by distillation.
Information about the use of processing aids	Processing aids used: methanol, sodium methylate, hydrochloric acid, sodium hydroxide, and water.
Information about composition	min. 80% Glycerine max. 15% Water max. 0,2% Methanol (acc. to positive list) max. 7,5% Asch between 4-6 % chloride (calculated as NaCl)
Details about relevant undesirable substances within the scope of risk-oriented self-control	Regular monitoring of undesirable substances in accordance with the relevant applicable legal regulations and the requirements for controls plans for industry-specific certifications.
Information regarding shelf life, storage and transport	12 months. Protect from air, light, and moisture during storage and transport. During transport, applicable feed transport guidelines and standards must be observed.
Safety instructions	Crude glycerin is not classified as a hazardous substance according to EU Directives 67/548/EEC and 1999/45/EC and is classified as Water Hazard Class 1. Further information is available in the relevant Safety Data Sheets (SDS) ¹ .
Information on critical ingredients	Ensure an adequate water supply. Residual methanol content complies with the requirements of the applicable positive List.

¹ to be obtained from the manufacturer/distributor

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.