## **Product Information ProtiGrain**®



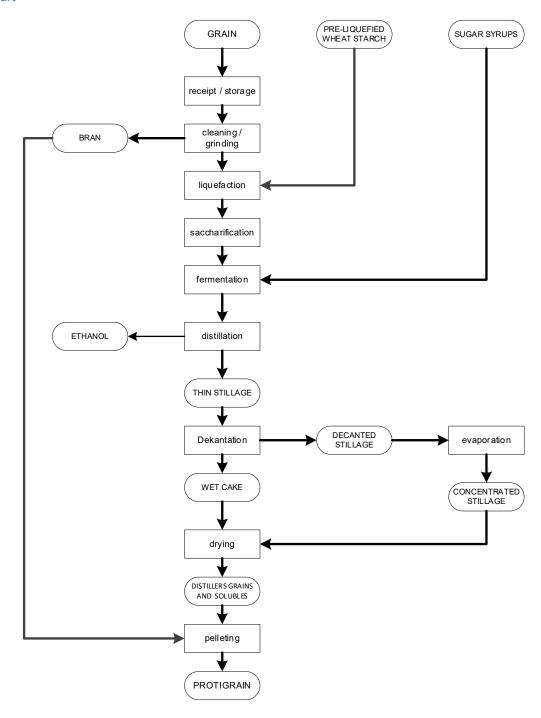
| Producer   | CropEnergies Bioethanol GmbH<br>Albrechtstraße 54<br>D-06712 Zeitz<br>Germany   |  |  |
|--|---|--|--|
| Product name/<br>Feed material designation                                     | ProtiGrain® Distillers' Grains and Solubles, dried (1.12.9 Regulation (EU) No 68/2013) from cereals, sugar syrups Raw materials (in variable proportions by weight): wheat, corn, barley; optionally sugar beet syrups, triticale, rye  |  |  |
| Product description  | Product obtained when producing alcohol by fermentation and distilling grain mash of cereals and/or other starchy and sugar containing products. They may contain dead cells and/or parts of the fermentation microorganisms. May contain 2 % sulphate and/or up to 2 % potassium at a moisture content of 12 %.  |  |  |
| Information on the production process  | cf. flow chart  |  |  |
| Processing aids  | The processing of cereals and sugar syrup into bioethanol and ProtiGrain® require the use of pro-cessing aids; they are removed from the products in the course of the production apart from technically unavoidable residual amounts. Quality assurance measures are installed to exclude health risks thereof.  Processing aids: yeast, enzymes, pH adjustment chemicals, fermentation nutrients, hop acid, defoamers, anti-caking agents |  |  |
| Information on composition tolerances in acc. with Regulation (EC) No 767/2009 | Typical analytical characteristics:  Dry matter:  Crude protein:  Sum of crude protein and crude fat:  Crude fibre:  90 g/100 g 29 g/100 g 36 g/100 g 7 g/100 g   |  |  |
| Use Characteristics  | Feed material (no compound and complete feed in acc. to Regulation (EC) No 767/2009  Main target animals with maximum daily feeding share:  Cattle 15 % - 20 %  Fattening pigs 10 % - 15 %  Sows 4 % - 8 %  Animals should have access to sufficient water.   |  |  |
| Information on stability and storage   | ProtiGrain® can be stored for more than 6 months under appropriate storage conditions.  |  |  |
| Information on risk-based feed hazard control                                  | Regular monitoring on undesirable substances based on requirements of current feed legislation Directive 2002/32/EC, Regulation (EC) No 183/2005 and feed safety schemes like GMP+ FSA.  The HACCP assessment doesn't result in the necessity of the implementation of CCPs.  |  |  |
| Safety advices (labour/environment)  | ProtiGrain® is not toxic, is bio-degradable and doesn't require any special safety precautions during transport and delivery.   |  |  |
| Certification  | GMP+ FSA assured  |  |  |

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## Flow chart



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