

USDA Foreign Agricultural Service

GAIN Report

Global Agricultural Information Network

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POLICY

Voluntary Public

Date: 3/16/2012

GAIN Report Number: CH12029

China - Peoples Republic of

Post: Beijing

MOA Draft Feed Ingredient Catalogue

Report Categories:

FAIRS Subject Report

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Report Highlights:

On March 7, 2012, China's Ministry of Agriculture (MOA) published Notice on Soliciting Public Comments on Catalogue of Feed Ingredient (Draft for Public Comments) and requests the submission of all comments before April 10, 2012. Preliminary study of “the Notice,” “the Interpretation on the Catalogue of Feed Ingredient,” and “Appendix 2 (General Rules, Feed Ingredient Processing Terms and Feed Ingredient Catalogue)” indicates these documents intend to standardize definitions for Feed Ingredients.

This report contains an UNOFFICIAL translation of the Catalogue.

Executive Summary:

On March 7, 2012, China's Ministry of Agriculture (MOA) published Notice on Soliciting Public Comments on Catalogue of Feed Ingredient (Draft for Public Comments) and requests the submission of all comments before April 10, 2012. Preliminary study of “the Notice,” “the Interpretation on the Catalogue of Feed Ingredient,” and “Appendix 2 (General Rules, Feed Ingredient Processing Terms and Feed Ingredient Catalogue)” indicates these documents intend to standardize definitions for Feed Ingredients. Although not notified to the World Trade Organization, MOA will enforce this Catalogue on May 1, 2012.

This report contains an UNOFFICIAL translation of the Catalogue.

General Information:

BEGIN TRANSLATION

Notice of Ministry of Agriculture on Soliciting Public Comments on Catalogue of Feed Ingredient (Draft for Public Comments)

Published by: Department of Animal Husbandry of the Ministry of Agriculture

Published time: March 7, 2012

Key words: Feed, Feed Additive, Comments

Appendix 1: Interpretations about the Catalogue of Feed Ingredients (Draft for Public Comments)

Appendix 2: Catalogue of Feed Ingredients (Draft for Public Comments)

The Administration Measures on Feed and Feed Additive (hereinafter referred to as The Measures) have been revised and approved by the State Council at the 177th Standing Conference on October 26, 2011, and shall be enforced on May 1, 2012. In accordance with the revised Measures, the Ministry of Agriculture drafted Catalogue of Feed Ingredient (Draft for Public Comments), and hereby published with an interpretation on the formulation of the draft for public comments. Any suggestion or comments from any organization or individual shall be submitted before April 10, 2012 through mail or email.

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Published time: March 7, 2012

Appendix 1

Interpretations on the Catalogue of Feed Ingredients (Draft for Public Comments)

1. Background of the Catalogue

The Administration Measures on Feed and Feed Additive (hereinafter referred to as The Measures) have been revised and passed by the State Council at the 177th Standing Conference on October 26, 2011, and shall be enforced on May 1 2012. The following factors have been taken into consideration in the process of revising and formulation of the Measures: China's serious shortage of feed resources, various kinds of abnormal feed ingredients, and varying quality in the ingredient market. These factors are likely to affect feed quality and safety; thus, the Catalogue of Feed Ingredients is specially formulated. Only the feed ingredients published by the Feed Administrative Department under the State Council are permitted to be used as feed ingredients by feed manufacturing enterprises.

2. Major Contents of The Catalogue (draft for public comments)

1) Formulating principles and justifications

By referring to EU's Catalogue of Feed ingredient (2nd version) (EU Regulations 575/2011) and AAFCO's Catalogue of Feed Ingredient, The Catalogue is formulated under the principle of "complete coverage and ensuring safety", by taking into full consideration the current provisions of the Catalogue of Single Feed Products (Ministry of Agriculture Notice No. 977) and the Administrative Measures on Safety and Hygiene of Animal Derived Feed Products (Ministry of Agriculture Decree No. 40) with the use of relative references, and by considering the current development of the feed industry in China.

2) Framework:

By referring to the framework of EU's Catalogue of Feed ingredients, this Catalogue is composed of four parts: general rules, processing terms, list of ingredients and list of single feeds subject to administrative approval.

Part 1 is General Rules. It is composed of 11 articles mainly specifying the principle provisions for the common problems of the Catalogue, specifies the scope of application, structure of the Catalogue, requirements of use, and links with relative standards.

Part 2 is Feed Ingredient Processing Terms. With reference to existing regulations, standards, and terms of relative upstream industries, the manufacturing technique of upstream industries is created for grain processing, meat processing and light industrial ferment, and product names made under different manufacturing conditions are standardized, with the effect to clarify the real implication of the main processing terms and product names marked in the third part of the ingredient list. The 65 terms are listed in the alphabetic order of the Ping Ying pronunciation of the first character.

Part 3 is the Feed Ingredient Catalogue. Listed in the form are names of ingredients, description of features and mandatory labeling requirements.

(1) “Name of ingredient” is the common name used to standardize the label for feed ingredients and the ingredient in feed product. Alternative name if available is listed in square brackets and is equally used, e.g. “sweet potato [hongshu,baishu,fanshu, shanyu, fdigua and hongshao]”; Round brackets are used to indicate the various physical state of an ingredient, e.g. dried sweet potato (slice, piece, powder, particle).

(2) “Description of features” refers to the descriptive explanations of typical features such as the source of ingredients, processing techniques, etc. With regard to the products without national standards or industrial standards, specific requirements are listed in the description of features section on the key technique parameter, key technical indicator and hygiene index uncovered in the Hygiene Standard of Feed.

(3) “Mandatory labeling requirement” is the content to be included in the label of ingredient, which mainly involves items closely related to the quality or hygiene requirement of ingredient and warnings, for the purpose of ensuring better product quality, standardizing product specifications, and facilitating end-users to verify an authentic or fake product.

Ingredients are categorized into 13 groups according to the properties as follows:

- 1) Grain and its processed products, including 118 kinds of ingredients made of barley, paddy, sorghum, rye, leas, buckwheat, screenings, millet, broomcorn millet, triticale, oats, and corn;
- 2) Oilseeds and its processed products, including 96 kinds of ingredient made with 24 varieties of raw materials: almond, rapeseed, soybean, tomato seed, olive, walnut, safflower, prickly ash seed, peanut, cocoa, sunflower seed, cotton seed, kapok seed, grape seed, sea-buckthorn seed, wild jujube, Yellowhorn, linseed, coconut, evening primrose seed, sesame, purple perilla seed, palm kernel, and others;
- 3) Legume seed and its processed products, including 30 kinds of ingredients made with 9 raw materials: Broad bean, guar bean, red bean, mung bean, pea, chickpea, lupin, kidney bean, and others;
- 4) Tuber and root tuber and its processed products, including 23 kinds of ingredients made with 12 raw materials: white turnip, garlic, sweet potato, carrot, chicory, Jerusalem artichoke, potato, konjac, cassava, lotus root, sugar beet, and melon;
- 5) Other seeds and its processed products, including 7 kinds of ingredients made from 3 raw materials: chilli pepper, fruits and nuts, dates;

- 6) Forage grass, roughage and its processed products, including 15 kinds of ingredients made from 5 raw materials: hay, straw, green feed, green roughage and other roughage;
- 7) Other plants, algae and its processed products, including 119 kinds of ingredients made from 6 raw materials: sugarcane, seaweed, yucca, stevia rebaudiana, marigold, and natural plants;
- 8) Milk and milk products, including 13 kinds of ingredients made from 6 raw materials: cheese, casein, cream, dried milk, whey, and lactose;
- 9) Animal derived feed products (from terrestrial animal), including 37 kinds of ingredients made from 7 raw materials: animal fat, insects, animal organs, birds' eggs, earthworm, meat and bone, blood products;
- 10) Animal derived feed products (from aquatic animals), including 24 kinds of ingredients made from 5 raw materials: shells, crustacean, aquatic mollusks, fish, and others;
- 11) Minerals and its processed products, including 10 kinds of natural minerals;
- 12) Fermented microbial products or by-products (after dormancy or deactivation of microbial cells), including 10 kinds of ingredients made from 4 raw materials: fermented cakes, fermented fruit residue, bacteria protein products made with the use of particular microorganisms and particular culture mediums, fermented by-products of meals and residues;
- 13) Other products, including 12 kinds of ingredient made from 3 raw materials: starch, foods, sugars.

Legumes seeds used for oil extraction fall into Part 2; fermented cakes and fermented soybean meals falls into Part 12; starchy products fall into Part 13; for convenience of search and use of the Catalogue, grain distilled residues fall into Part 1 and Part 12, sausage powder falls into Part 9 and Part 13, shell powder falls into Part 10 and Part 11, respectively and simultaneously but with the same code number.

For each kind of feed ingredient, code number, name, description and mandatory label are assigned. The code number is in three tier form of AA.BB.CCC: AA is the first tier, which means the general classification, for example. "1. Grain and its processed products"; The second tier AA.BB stands for the different sources of ingredients under the same category, for example, "1.1 Barley and its processed products"; The third tier AA.BB.CCC means different products of the same source, for example. "1.1.2. Barley sub-powder". The first tier code adopts EU's method, while the second and third tier is based on principle of alphabetic order of the Chinese Ping Ying pronunciation for the first Chinese character, with the following exception: (1) in the second-tier catalogue, "others" is put after all other raw materials of ingredient, for example. "3.9 Other beans and its processed products"; (2) in the third-tier

catalogue, the basic material is put in the beginning of all other ingredients derived from the basic material, for example, “1.13.1 Maize”.

The Catalogue contains 514 kinds of feed ingredients in total.

3. Other items that need to be interpreted.

1) Mixed ingredient

Mixed ingredient is a kind of product between feed ingredient and concentrated feed, which is made of two kinds of ingredients or above in order to meet the need of ingredient processing, to meet the need of manufacturers that have no conditions for ingredient mixing or for the purpose of enhancing nutritional and functional balance of the ingredients. Some typical such products available at present in the market include milk powder substitute (mixture of dairy products and plant protein powder), fat powder (liquid oil is sprayed onto the carrier, for pig farms where there is no liquid filling facility), Five Star You Xu Bao (mixture of milk powder and several kinds of sugar). The local feed administration department normally treats these products as concentrated feed, nevertheless, these products are fundamentally different from concentrate. Regarding to the administration of these products, based on repeated research, it is agreed that the combination forms of mixed feed ingredient are too many to be listed in the catalogue, however, the contents of mixed ingredients' components of these ingredients shall be from the Catalogue, and be marked in the label.

2) Natural plants

Natural plant product application in feed is one of the current hot topics. These kinds of products do have the nutritional value and enhance the quality and flavor of farm raised animals, but currently no specific regulations are in place for administration of them. According to the catalogue of medicinal and edible plants approved by the health department of China and by referring to the catalogue of GRAS plant products approved overseas, most Chinese experts agree to include those natural plants with main function of being used as feed in the Catalogue, believing these products do have the nutrition value or the function of enhancing animal product flavor. It shall facilitate the administration of these products to include them in the Catalogue, and this is seen as a kind of inheritance and extension of traditional Chinese culture. It shall, however, not be claimed to be medically functional or preventive against animal diseases while being manufactured, sold and used. The listed ingredients are only limited to natural plants and its dried powder, exclusive of its extract.

3) Catalogue of single feed

Considering the Catalogue contains both ingredients that can be used as feed directly and single feed that is industry processed, in order to facilitate administration, 64 typical kinds of industry processed products, which take high market share and have great impact on the quality of feed products, are categorized into a list of single feed that needs to apply for production license, and are listed in Part Four separately in the Catalogue.

4) Ingredients deleted from the Catalogue:

Although no industrial standard has ever been implemented for feed ingredient industry in China, the kinds of ingredients permitted to use are stipulated in the two regulatory documents, namely, The Administrative Measures of Safety and Hygiene of Animal Derived Feed and Catalogue of Single Feed. Ingredients deleted from the Catalogue are as follows:

(1) Leather protein powder. The reason is that the auxiliary dichromate used in leather tanning process is highly toxic and poses threat to human and animal's health.

(2) Chocolate milk powder. The reason is that this product is a combination of various kinds of ingredients, therefore, shall not fall into the Catalogue of feed ingredients.

(3) Feed grade mixed oil. The reason is that the components of this product are complex, therefore, shall undergo further evaluation on safety.

Appendix 2 :

The Catalogue of Feed Ingredient (Draft for Public Comments)

Part 1 - General Rules

1. The feed ingredients for producing industry feed or for trading shall fall into this Catalogue; feed ingredients used during industrial feed production shall also fall into this Catalogue, and meet the relevant requirements specified in the third part of this Catalogue.

2. Other materials that are not listed in this Catalogue but to be used, traded, produced by manufacturers as feed ingredient shall file application to the agricultural department under the State Council for science-based evaluation and approval for producing, use and trading.
3. Product name marked in the label of feed ingredients should be in conformity with the “ingredient name” specified in the third part of the Catalogue; the ingredient name listed in the “ingredient composition” section in the label of complete feed concentrate feeds, feed premixes, and supplementary feed shall also be in conformity with the “ingredient name” specified in the third part of the Catalogue. The common alternative names of feed ingredients are listed in the square brackets in the “ingredient names” section which can be equally used as the names shown before the square brackets. The substance in various forms of an ingredient listed in round brackets in the “ingredient names” section shall be selected based on the actual product situation.
4. Items specified in the “requirements of mandatory label” section of the third part of the Catalogue are the indices of ingredient quality or hygiene features, which shall be listed in the Analysis of Safety Value section of the ingredient label.
5. The second part of this Catalogue specifies the names, definitions and descriptive terms of the commonly used feed ingredient processing terms; therefore, wherever in the third part these terms are mentioned, the implications shall be in conformity with the definitions in the second part.
6. The feed ingredients produced, traded or used in accordance with this Catalogue shall meet the requirements of the mandatory standards such as Feed Hygiene Standard and Label of Feed Ingredients.
7. The inclusion of an ingredient in this Catalogue shall not be interpreted as the ingredient shall be used by manufacturers without a limit. Some ingredients contain natural biological toxin, such as cotton seed meal shall be selected and used reasonably based on the feeding animals and the ingredient characteristics.
8. In addition to particular stipulations in the Catalogue, the botanical purity of the plant feed ingredients shall be normally no less than 95%.
9. The transgenic animal, plant and microbial feed ingredients shall be treated in accordance with the Administrative Measures on the Safety of Agricultural Genetic Modified Organism.
10. Mixed feed ingredient made of two kinds of feed ingredients or above can be manufactured, traded and used, however, shall be made of the ingredient in this Catalogue.
11. The ingredient code number in the third part of the Catalogue is in the form of three-tier

AA.BB.CCC: The first tier AA represents the general category; The second tier AA.BB represents the different raw materials under the same category; The third tier AA.BB.CCC represents different products of the same raw material. The second and third tier is in principle coded in the alphabetic order of the Ping Ying pronunciation of the first Chinese character.

END TRANSLATION