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Fertilizer marking - Presentation and declaration

肥料标识 内容和要求

(ISO 7409:2018, Fertilizers - Marking - Presentation and declarations, NEQ)

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Fertilizer marking - Presentation and declaration

1 Scope

This standard specifies the terms and definitions, principles, basic principles, general requirements, marking content and requirements, labels, quality certifications or certificates, printing of marking, for fertilizer marking.

This standard applies to fertilizers, which are sold in China. It does not apply to products, which are specially made for users by producers in accordance with the contract AND are not circulated in the market.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates marked are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB 190 Packing symbol of dangerous goods

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 6274-2016 Fertilizers and soil conditioners - Vocabulary

GB/T 18455 Package recycling marking

GB/T 32741-2016 Fertilizers and soil conditioning agents

Measures for the metrological supervision and administration of quantitatively packaged commodities (Order No.75 of 2005 of the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China)

3 Terms and definitions

The terms and definitions as defined in GB/T 6274, as well as the following terms and definitions apply to this document.

3.1

Fertilizer

A fertilizer, which is produced by chemical methods and/or blending methods, wherein the content of at least two nutrients of the three nutrients: nitrogen, phosphorus, potassium, is specified.

3.7

Bulk blending fertilizer

BB fertilizer

A granular fertilizer, which is produced by dry blending methods, wherein the content of at least two nutrients of the three nutrients: nitrogen, phosphorus, potassium, is specified.

3.8

Secondary nutrient (element) fertilizer

Fertilizers, that mark the content of at least one element of calcium, magnesium, sulfur, BUT do not mark the content of nitrogen, phosphorus, potassium.

3.9

Micronutrient fertilizer

Fertilizers, that contain one or more trace elements, BUT do not mark the content of nitrogen, phosphorus, potassium, calcium, magnesium or sulfur.

3.10

Organic fertilizer

Carbon-containing organic materials, which are mainly derived from plants and (or) animals, have been fermented and decomposed.

Note: The function of organic fertilizer is to improve soil fertility, provide plant nutrition, improve crop quality.

3.11

Fertilizer nutrient

The nutrient elements, which are provided by fertilizers, for plant growth and development.

3.12

Macronutrient

4 Principle

Prescribe the main content of the marking AND determine the size, position, text, graphics, etc. of the marking, on the fertilizer packaging container, so that users can identify fertilizers AND determine their characteristics. These requirements vary depending on the container used:

- Packing more than OR equal to 25 kg (or 25 L) of fertilizer;
- Packing more than OR equal to 5 kg BUT less than 25 kg (or more than or equal to 5 L and less than 25 L) of fertilizer;
- Packing less than 5 kg (or 5 L) of fertilizer.

5 Basic principles

5.1 All contents marked shall comply with the requirements of relevant standards.

5.2 All contents marked shall follow the principle of truth, be accurate, scientific, easy to understand.

5.3 All content marked shall not describe or introduce fertilizers, in a wrong, deceptive, exaggerated, false or misleading way. If the declaration has a role other than providing nutrients, there shall be sufficient and credible evidence.

5.4 All content marked shall not use directly or indirectly suggestive language, graphics, symbols, to cause users to confuse a fertilizer or a certain property of fertilizer with another fertilizer; it shall not contain the marking information, that causes users to confuse products of different companies.

6 General requirements

6.1 General requirements

All contents marked shall be clear, firm, in obvious contrast to the base, easy to identify.

6.2 Text

The texts in the marking shall use standard Chinese characters (nutrient names can be expressed by chemical element symbols or molecular formulas). It may use synonymous minority characters and foreign characters at the same time, BUT the foreign characters shall be smaller than the corresponding Chinese characters and minority characters.

Fertilizer names (including product names) shall not contain false or exaggerated words and homophonic sounds, including but not limited to high efficiency, special effects, all-element, multi-element, high-yield, double-effect, multi-effect, growth, growth promotion, high fertility, domination, king, god, spirit, treasure, holy, activity, vitality, strength, activation, stress-resistance, harm-resistance, high energy, multi-function, full nutrition, green-maintaining, flower-maintaining, fruit-maintaining, etc. The content (including text and patterns), which is marked on the same line as the fertilizer name, shall also meet the requirements of this article.

7.1.4 Trademarks

The marked trademark, which has a logo of ®, shall be a registered legal trademark.

7.2 Specifications, grades, net content of fertilizer

7.2.1 Where the specifications, grades, categories have been specified in the fertilizer product standards, it shall mark the corresponding specifications, grades, categories. If only the nutrient content is marked, it is deemed that, the full technical indicators of product quality meet the requirements of highest grade of the product, corresponding to the nutrient content.

7.2.2 The net content shall be marked on the single package of fertilizer products. The marking of net content shall comply with the requirements of the "Measures for the metrological supervision and administration of quantitatively packaged commodities".

7.2.3 Only one net content can be marked on a packaging container.

7.3 Nutrient content

7.3.1 General provisions

7.3.1.1 The nutrient content shall be marked by a single numerical value. For solid product, it is marked by mass fraction (%); for liquid product, it is marked by mass fraction (%) or mass concentration (g/L).

7.3.1.2 The nitrogen content is calculated as N; the phosphorus content is calculated as P_2O_5 ; the potassium content is calculated as K_2O ; the secondary element and trace element are calculated as elementary substance of element.

7.3.1.3 The nutrient content shall be calculated and marked, on the basis of the total material, which is the declared net content on a single package. It shall not mark the nutrient content, by splitting the materials in the packaging container (e.g., 20% organic matter in black particles, 25% total primary nutrient content in ash particles).

element is deemed to be no less than 0.02%.

7.3.5 Micronutrient fertilizer

It shall respectively mark the single content of various trace elements AND the sum of nutrient content of trace element.

7.3.6 Organic fertilizer

It shall mark the content of organic matter AND total primary nutrient content.

7.3.7 Other fertilizers

For the products, which are marked to implement national standards or industry standards, they shall be marked in accordance with 7.3.1 ~ 7.3.6. For the products, which are marked to implement group standards or enterprise standards, they shall be marked according to the nutrient index, that are approved during the fertilizer registration.

7.4 Content of other additives

7.4.1 If other additives are added, the manufacturer shall have sufficient evidence, to prove that the additives are safe and effective.

7.4.2 It may mark the name and content of other additives. It shall respectively mark the content of each additive. It shall not add the content of additives AND nutrients together.

7.5 Restricted substances and indicators

7.5.1 For the substances or elements, that need to be restricted and marked in the product standard, they shall be marked separately.

7.5.2 It shall not mark the patterns of sensitive elements or objects that are prohibited to use.

7.5.3 The warning words shall be marked in a conspicuous manner, according to the prescribed font size. Examples 1 ~ 3 give specific examples of warning words.

Example 1: It has high chlorine content; improper use can cause damage to crop.

Example 2: It contains biuret; improper use can cause damage to crop.

Example 3: It has high chlorine content and biuret; improper use can cause damage to crop.

7.6 Production license number and fertilizer registration certificate

conditions. Therefore, there is no need to mark the shelf life or expiration date.

7.9 Implemented standard

7.9.1 It shall mark the number of standard, which is implemented by the fertilizer product. For the fertilizer products with mandatory national standards, it shall mark the number of mandatory standard.

7.9.2 For the fertilizer products, that have national or industry standards, if marking the other elements or additives, than those included in the marked national or industry standards, THEN, in addition to the national or industry standards, it shall also mark the effective group standard or enterprise standard, which contains the testing method of the additives. The method in the group standard or enterprise standard shall be the authoritative testing method of the additive, in the domestic and foreign literature.

7.10 Instructions for use

7.10.1 It shall use appropriate methods (including electronic labels such as QR codes, barcodes, etc.), on the outer packaging container of the product, to mark instructions for use, including but not limited to the following: method of use, suitable crops or unsuitable crops, recommended usage amount, considerations, etc.

7.10.2 If marking other effects than the effect of a fertilizer, it shall be able to provide sufficient evidence, which is issued by a qualified organization. For more detailed information, it can be marked on the corporate website, product brochures, etc.

7.11 Safety instructions or warning instructions

For the products, which may cause property damage or may endanger human health and safety, due to improper transport, storage, use, THEN, it shall mark the safety instructions or warning instructions, in a conspicuous manner.

7.12 Others

7.12.1 The packaging recycling mark, as deemed necessary by the enterprise, that conforms to GB/T 18455, AND other marks, that conform to the requirements of national laws and regulations.

7.12.2 It shall not mark that the origin of raw materials is a certain country, a certain region, or a certain well-known brand, etc., which may cause users to misunderstand the product as an imported product or a well-known brand product. For the products, that have introduced foreign technology OR partly use imported raw materials, it shall not mark the name of the foreign company that contains the importing party.

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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