Labeling Standards for Genetically-Modified Foods, Etc. Information Package for Public Briefing Session

2017.



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\diamond Regarding the amendments to the Notification

1

Main changes in the Amended Notification

"Labeling Standards for Genetically-Modified Foods, Etc." amended this year (January 25, 2017) has expanded the scope of foods subject to GM food labeling requirements from Top-five ingredients (raw materials) that are used the most in a food product to all ingredients regardless of their content.

\Box Key changes are as follows:

- ① Foods subject to GM food labeling requirements have been expanded from top-five ingredients to all ingredients.
- 2 The font size has been increased from 10 points to 12 points.*
 * The required phrase shall be written on the primary display panel or in parentheses right next to the name of ingredients.
- ③ Foods in which a conventional breeding soybean or maize is used can be labeled as "비유전자변형식품," "무유전자변형식품"," "Non-GMO" or "GMO-free."
 - * This applies only to foods that fall under the following cases: The content of an ingredient subject to the labeling requirements is 50% or higher or such an ingredient is used the most of all the ingredients. In this case, adventitious presence in the finished product shall not be tolerated.
- ④ It is forbidden to label rice, bananas, etc., which have not been developed or approved as genetically-modified foods, as Non-GM

food or to use other related labels for them.

- (5) Cooking oils, soy sauces, sugars, etc. in which no genetically-modified DNA (or protein) remains due to a highly refining process shall be excluded from labeling obligations, as is currently the case.
 - X With regard to the need for applying the GM food labeling system to cooking oils, soy sauces, sugars, etc., it is planned to expand the labeling requirements to them once a social consensus is reached through sufficient discussions among stakeholders.

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Labeling is required only for ingredients whose geneticallymodified DNA (or protein) remains in the food

- □ In the case of cooking oils, soy sauces, sugars, etc., it is not possible to ascertain facts on compliance with the labeling requirements if there is no genetically-modified DNA (or protein) remaining in the final product.
- □ However, if discussions with stakeholders in the future lead to a social consensus on the need for applying the GM food labeling system to such cases, we plan to expand the scope of the application accordingly (the relevant laws need to be amended).

Regarding the need for labeling even foods without any traces of genetically-modified DNA (or protein) to protect consumers' right to know

- □ In order to have cooking oils, sugars, etc. labeled even when there remains no genetically-modified DNA (or protein) in the final finished product, the Food Sanitation Act needs to be amended. Therefore, this type of change requires further discussions.
- □ Labeling Standards for Genetically-Modified Foods, Etc. addressed herein is a revised version made to incorporate and enforce (on February 4, 2017) the amendments of the laws (Article 12-2 of the Food Sanitation Act and Article 17-2 of the Health Functional Foods Act) that passed the National Assembly on December 31, 2015.
 - * Part of the provisions under Article 12–2 of the Food Sanitation Act was changed from "major raw materials whose genetically-modified DNA (or protein) remains in the finished product" to "raw materials." This change has been incorporated in this Notification.
- □ Under the current circumstances, it is desirable to implement the amended Food Sanitation Act first (February 4, 2017) and then decide on whether the scope of labeling should be extended after a social consensus is reached through sufficient discussions with stakeholders including consumer groups, academic circles and the industry.

Why is the Non-GMO labeling restricted to food subject to the GM food labeling requirements, such as soybean and maize?

- ☐ If a Non-GMO labeling is put on rice, apples, bananas, oranges, etc. that have originally not been developed or approved as genetically- modified foods;
 - Consumers may mistake an agricultural product or processed food thereof that does not have a Non-GMO labeling on it for a genetically-modified food or confuse such a product or food with a genetically-modified food. This is why such a food is not allowed to have the labeling*
 - * Foods subject to GM food labeling: Genetically-modified agricultural products (soybean, maize, cotton, canola, sugar beet and alfalfa) and processed foods thereof that have passed a food-safety assessment in Korea and subsequently have been approved for import into Korea
 - O Considering Korea's high dependence on imported agricultural products, imported products may benefit more than domestic products. In addition to this, it will entail a monetary burden if labeling is required even for products for which it is a matter of fact that they are not genetically modified.

	Korea	Japan	United States	Europe
Non-GMO labeling allowed or not	Allowed only for foods tested for safety and approved as food (6 foods)	Same as left (8 foods)	No regulations available on labeling genetically- modified foods	No regulations * Currently, there are no regulations harmonized at the EU level.
Non-GMO labeling method	"유전자변형식품", "유전자변형식품", "Non-GMO", "GMO-free"	For example, "what is not genetically- modified has been segregated"	Guidance: Non-GMO labeling is inappropriate for foods to which genetically-modified food has no relevance.	

<Non-GMO Labeling Allowed by Major Countries>

Why is adventitious presence not tolerated for Non-GMO labeling?

- Adventitious presence refers to the proportion of geneticallymodified agricultural products that can be mixed inevitably in an agricultural product in the process of cultivating and distributing the agricultural product concerned. There is no need for tolerating adventitious presence for agricultural products produced in Korea because there are no genetically-modified crops cultivated or grown in Korea.
 - Even for imported products, it is considered desirable to label a product as Non-GMO only if it is proven that the product concerned does not have any traces of genetically-modified agricultural products at all.
- □ We will improve the Labeling System through continuous discussions in the future.

	Korea	Japan	U.S.	Europe
Adventitious presence in Non-GMO Labeling	0%	5%	No regulations available	No harmonized regulations in force. But tolerance levels vary with countries depending on their internal circumstances. * France (0.1%), Germany (allows the use of a label indicating "No Genetic Engineering," not "Non-GMO")

<Reference> Threshold levels for adventitious presence in Non-GMO Labeling

How are foods subject to labeling determined?

- ☐ Foods subject to GM food labeling are selected from foods that can be imported, distributed and sold in Korea.
 - For a food to be imported, distributed and sold in Korea, it should go through a food-safety assessment and obtain approval pursuant to Article 18 of the Food Sanitation Act.
- □ So far, soybean, cotton, maize, canola, sugar beet and alfalfa have been approved as food in Korea. These six agricultural products and foods that contain any of them are subject to the GM food labeling requirements.

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Why are "food service providers" not included in the scope of persons responsible for labeling?

- □ Crops imported as genetically-modified agricultural products (mostly soybean and maize) are processed into cooking oils, sugars, etc. Therefore, these agricultural products themselves are not distributed for sale to consumers.
 - Also, even in cases where they are distributed, ingredients used by food service providers tend to be different every day, making it difficult to check them every time.

□ Therefore, it is considered not desirable to implement the Labeling System on food service providers for genetically-modified agricultural products that are not sold as genetically-modified agricultural products.

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Why is the threshold level for adventitious presence for genetically-modified agricultural products not lowered from the current 3% to the European level of 0.9%?

- □ Different countries apply different threshold levels* depending on their production conditions for agricultural products and their self-sufficiency rates.
 - * Europe: 0.9%, Japan: 5%, Taiwan and Korea: 3%, Australia and New Zealand: 1%, U.S.: Not defined
- □ A decision on lowering the adventitious presence level requires close examination on self-sufficiency rates of domestic agricultural products, secured import quantities of non-GMO agricultural products, comparison between consumer benefits, and economic effectiveness and threshold levels of other countries, among other things.
- □ Therefore, if a social consensus is formed through public hearings involving the National Assembly, the industry, consumers and other stakeholders or through "The GM-foods Labeling scheme Committee", we will proceed to implement the agreement accordingly.

\diamond Foods Subject to GM food Labeling Requirements

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Reasons for excluding processing aids, excipients, etc. from ingredients subject to labeling requirements and methods of managing them

- □ Since foods subject to GM food labeling requirements have been extended from "major ingredients" to "all ingredients," it is considered unreasonable to label substances that were used temporarily or in trace amounts during the food manufacturing process. This is why substances used for such purposes as processing aid, excipient, diluent or stabilizer have been excluded from the scope of ingredients subject to the labeling requirements.
- □ Processing aids refer to substances used intentionally in the manufacturing and processing of food to achieve a certain technical purpose. For example, an enzyme made from a genetically-modified microorganism falls under this category.
- □ An excipient (substance added to ensure uniformity in the composition of food), diluent (substance added to lower the concentration without changing the physicochemical attributes of food) or stabilizer (substance added to prevent physicochemical change in food) is a substance put in very small amounts into a food inevitably to form an ingredient (certain component or flavor, etc.). Examples include substances used for the purpose of stabilizing the flavor of on the air, for example, apple flavor.

- □ In cases where a substance is used as an excipient, diluent or stabilizer, documents.* from the manufacturer proving the purpose of the substance should be provided
 - * Product information (product name, etc.), the use (purpose) of the ingredient subject to the labeling requirements, etc. should be available in the document.

Foods exempt from labeling as they are impossible to test, such as cooking oils, sugars, etc

- □ Cooking oils, sugars, etc., which are considered impossible to test as there remains no genetically-modified DNA (or protein) in them after the end of a high-degree refining process including heat treatment, fermentation, extraction and filtering are excluded from the GM food labeling obligations.
- □ Foods exempt from GM food labeling include "cooking oils, sugars (glucose, fructose, starch syrup, sugar syrup, oligosaccharides), soy sauce, modified starch, and alcoholic beverages (beer, whiskey, brandy, liqueur, regular distilled spirits, other alcoholic beverages, etc.).
- As for d-α-tocopherol, you should have documentary evidence from the manufacturer, proving that it was derived from an edible plant oil.
- □ As for soybean lecithin, you should have a certificate* from the manufacturer, if it was not used as a stabilizer, etc. and it is impossible to test for traces of a GM ingredient.

* e.g., Manufacturer's Inspection Certificate, Product Specifications showing purity, etc.



Is a food that uses soybean or maize in very small amounts as an ingredient subject to GM food labeling?

□ It is subject to the labeling requirements. If soybean or maize is used as an excipient, diluent or stabilizer, it is not subject to the GM food labeling requirements.

\diamond Regarding Required Documents

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In addition to Identity Preservation Certificate and Government Certificate, Inspection Certificate has also been accepted as a document for labeling exemption. Why is it deleted from the Amended Notification?

- □ Until now, documents accepted for exemption from the GM food labeling requirements included "Identity Preservation Certificate," "Government Certificate" and "Inspection Certificate."
 - To administer the GM foods labeling scheme more stringently, the provisions have been strengthened to allow exemption from labeling obligations only if "Identity Preservation Certificate" or "Government Certificate" has been obtained. If either of the certificates is not available or if it is not possible to verify the presence of a genetically-modified element, the food concerned should be labeled as "genetically-modified food" or "possibly contains (product name)."*

- Labeling shall be done using ink, seal or stamp, or it shall be done on a sticker or label sheet. Label information shall be placed distinctively in 12-point or bigger font, using a color clearly distinguishable from the background color.
- □ In the case of processed foods, however, manufacturers may issue a certificate to the effect that the food concerned has been manufactured using ingredients segregated and handled separately from any genetically-modified foods, etc. This is intended to impose on manufacturers the responsibility for proving the identity preservation of their own products. In cases where such a manufacturer-issued certificate is in possession, that certificate can be considered as Identity Preservation Certificate.
 - In such cases, if a genetically-modified DNA (or protein) is detected as a result of a customs or distribution inspection, documentary evidence will be requested from the manufacturer concerned and verified. The food concerned will be checked for the use of any genetically-modified ingredient or any adventitious presence through overseas inspection, etc., if necessary. An administrative disposition, etc. shall be imposed depending on the results.

\diamond Others

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Why is the Notification enforced immediately without a grace period?

□ The expansion from top-five ingredients (top-five ingredients used the most) to all ingredients was determined by the amendments to the

Food Sanitation Act on February 3, 2016. This law already assigned a grace period of one year when it stated that the amendments shall be enforced on February 4, 2017.

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Documents required to exempt products manufactured and processed in Korea from GM food labeling

□ If a food is exempt from GM food labeling obligations at the time of import, relevant documents will be submitted to the Government. If a domestic manufacturer wants not to label its own products as GM food, they are required to be equipped with the same documents (copies acceptable) required at the import stage.

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Where should a sticker or other GM food labels be placed?

□ GM food labeling should be done in 12-point or bigger font on the principal display panel or in parentheses right next to the name of ingredients. In inevitable cases, however, it may be done in 12-point or bigger font on a panel that is easy for consumers to recognize, using a color clearly distinguishable from the background color.

16 Cases where one product contains more than one ingredient subject to GM food labeling requirements

□ You can label the product as "possibly contains genetically-modified maize" or "possibly contains genetically-modified soybean and genetically-modified maize" on its principal display panel.

Labeling Standards for Genetically-Modified Foods, Etc.

MFDS Notification No. 2014-114 (enacted on April 24, 2014) MFDS Notification No. 2017-7 (amended on January 25, 2017)

- **Article 1 (Purpose)** The purpose of this Notification is to provide consumers with accurate information by laying down labeling requirements in detail for genetically -modified foods, etc., including foods, etc. subject to the labeling requirements, pe rsons/entities responsible for such labeling, and labeling methods pursuant to Arti cle 12-2 of *the Food Sanitation Act*, Article 17-2 of *the Health Functional Foods Act*, Article 6 (Standards for Labelling of Livestock Products) of *the Livestock Produ cts Sanitary Control Act*, and Article 20 of *the Enforcement Decree of the Agricultu ral and Fishery Products Quality Control Act*.
- **Article 2 (Definitions)** For the purpose of this Notification, the following definitions shall apply:
 - 1. "Genetically modified foods, etc. (GM foods, etc.)" refers to each of the followi ng items:
 - A. Genetically-modified (GM) foods and food additives defined under Article 12-

2, Paragraph 1 of the Food Sanitation Act

- B. Genetically-modified (GM) functional health foods defined under Article 17-2 of *the Health Functional Foods Act*
- C. Livestock products in accordance with Article 6 of the Livestock Products Sani

tary Control Act

- D. Genetically-modified agricultural and fishery products defined under Article 2, Subparagraph 11 of *the Agricultural and Fishery Products Quality Control Act* (Vegetables grown by germinating the seed of a food item, for example bea n sprouts and bean leaves, are included. The same applies hereinafter.)
- 2. "Ingredient" refers to any substance, excluding water added intentionally, that is used to manufacture and process a food (Functional health foods as well as agricultural, livestock and fishery products are included; the same applies hereina fter) or food additive, which is present in the final finished product. However, materials used for the following purposes are excluded: processing aid (substance used intentionally in the manufacturing and processing of food to achieve a cert ain technical purpose), excipient (substance added to ensure uniformity in the co mposition of the food), diluent (substance added to lower the concentration wit hout changing the physicochemical attributes of the food) or stabilizer (substance e added to prevent physicochemical change in food).
- 3. "Identity Preservation Certificate" refers to documentary evidence proving that the food, etc. concerned has been segregated and handled separately from GM foods, etc. during the handling process including seed purchase, production, ma nufacturing, storage, sorting, transportation and shipping.
- 4. "Government Certificate" refers to documentary evidence showing that the gov ernment of the producing or exporting country acknowledges that the certificate has the same effect as defined under the Subparagraph 3 above.

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- 5. "Impossible" refers to a case in which amplified fragments of an endogenous gene have not been detected in a PCR test.
- 6. "Adventitious presence" refers to the unintentional presence (expressed as a perc entage) of any genetically-modified agricultural product in an agricultural product despite best efforts to segregate the product concerned in the process of produci ng, importing, distributing or handling it.)
- 7. "Principal display panel" refers to that portion of the container or packaging lab el on a food or food additive that bears the trademark and logo and is most likely to be seen by the consumer under customary conditions at the time of purchase.

Article 3 (Foods Subject to Labeling Requirements) ① A genetically-modified agri cultural, livestock or fishery product approved as food as well as food, etc. manuf actured and processed using a genetically-modified agricultural, livestock or fishery product as an ingredient shall be labeled as GM food if it is found as a result of a safety evaluation pursuant to Article 18 of *the Food Sanitation Act* that a gen etically-modified DNA or a genetically-modified protein is present in it.

② Foods subject to the labeling requirements under Paragraph 1 above may not be labeled as GM food in any of the following cases:

1. An agricultural product with the adventitious presence of a genetically- modifie d agricultural ingredient at 3% or less or a food or food additive manufactured and processed using such an agricultural product. In this case, however, the Iden tity Preservation Certificate or Government Certificate is required.

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2. Sugars, oils and fats, etc., which are considered impossible to test as there rema ins no genetically-modified DNA or genetically-modified protein in them after th e end of a high-degree refining process.

Article 4 (Persons Responsible for the Labeling) Persons or entities who fall unde r any of the following categories shall be responsible for labeling GM foods, etc.:
1. Genetically-modified agricultural, livestock and fishery products: Person or entity who cultivates, produces, ships out and sells a genetically-modified agricultural, livestock and/or fishery product or who stores and displays a genetically- modifi ed agricultural, livestock and/or fishery product for the purpose of sale

2. Genetically-modified foods: Person or entity who is engaged in the food manuf acturing/processing business, spot-sale food manufacturing/processing business, f ood additive manufacturing business, food subdivision business, or distribution-sp ecialized sales business as defined under Article 21 of *the Enforcement Decree of the Food Sanitation Act*; business of importing and selling imported food, etc. pursuant to Article 2 of *the Enforcement Decree of the Special Act on Imported Food Safety Control*; functional health food manufacturing business or distributio n-specialized sales of functional health foods under Article 2 of *the Enforcement Decree of the Health Functional Foods Act*; or livestock product processing busine ss or distribution-specialized sales of livestock products pursuant to Article 21 of *the Enforcement Decree of the Livestock Products Sanitary Control Act*

Article 5 (Labeling Methods) GM foods shall be labeled as described in the following sub-paragraphs:

- Labeling shall be done in Korean. However, Chinese or other foreign characters may be used in parallel with Korean text to help consumers understand better. In this case, the size of Chinese or other foreign characters should be equal to or smaller than the Korean characters.
- 2. Labeling shall be done using non-erasable ink, seal or stamp, or it shall be done on a sticker or label sheet that does not come off. Label information shall be placed distinctively in 12-point or bigger font, using a color clearly distinguishabl e from the background color of the container or packaging to ensure that consu mers can easily see the information.
- 3. Genetically-modified agricultural, livestock and fishery products shall be labeled as "GM (agricultural, livestock or fishery product name)." A vegetable cultivated from a genetically-modified agricultural product(s) shall be labeled as "(vegetable name) cultivated from GM (name of agricultural product/products)."
- 4. If a food commodity contains a genetically-modified agricultural, livestock or fis hery product, it shall be labeled as "contains GM (agricultural, livestock or fishery product name)." If a food commodity contains a vegetable cultivated from a gen etically-modified agricultural product(s), it shall be labeled as "contains (vegetable e name) cultivated from GM (name of agricultural product/products)."
- 5. If there is a possibility that the food commodity concerned may contain a gene tically-modified agricultural, livestock or fishery product, it shall be labeled as "p ossibly contains GM (agricultural, livestock or fishery product name)." If there is a possibility that the food commodity concerned may contain a vegetable cultiva

ted from a genetically-modified agricultural product(s), it shall be labeled as "pos sibly contains (vegetable name) cultivated from GM (name of agricultural produc t/products)."

- 6. To ensure that consumers can easily recognize a GM food, the phrase "GM foo d," "GM food additive," "GM functional health food," "food containing GM (com modity name)," "food additive containing GM (commodity name)" or "functional health food containing GM (commodity name)" should be written on its principa I display panel, or the phrase "GM" or "GM (commodity name)" shall be placed in parentheses right next to the names of the ingredients used in the product concerned.
- 7. If a product cannot be verified as to genetic modification, it shall have the phra se "possibly contains GM (commodity name)" written on its principal display pa nel or have the phrase "possibly contains GM (product name)" written in parent heses right next to the names of its ingredients.
- 8. In cases where a GM food, etc. is not used for a commodity subject to the labeling provisions of Article 3, Paragraph 1, the commodity may be labeled as "비유전자변형식품," "무유전자변형식품," "Non-GMO" or "GMO-free" if the c ontent of an ingredient subject to the labeling requirements is 50% or higher or if that ingredient is used the most in the product. In this case, an adventitiou s presence shall not be tolerated.
- 9. "Non-GMO," "GMO-free" or a similar term or phrase shall not be used for an agric ultural, livestock or fishery product that is not a GM product subject to the labeling

requirements under Article 3, Paragraph 1 or a food manufactured or processed usi ng such an agricultural, livestock or fishery product, lest it should cause misundersta nding or confusion among consumers.

- 10. In the case where a genetically-modified agricultural, livestock and fishery pro duct is shipped or loaded in a mother ship or shipping container for import or sales in bulk, the required labeling details shall be specified on the letter of cre dit or invoice. In the case where a genetically-modified agricultural, livestock an d fishery product is loaded in a cargo vehicle and distributed in Korea, the labeli ng details should be put on the vehicle and delivery note.
- **Article 6 (Exceptions to Labeling Requirements)** Notwithstanding the provisions of Article 5, labeling can be done as follows if any of the following sub-paragraphs applies:
 - 1. In cases where a spot-sale food manufacturing or processing business operator displays and sells a genetically-modified food of his/her own making or processin g, the operator may leave out a label on the individual units of the product if the required label information is placed on the display case or posted on a sepa rate board.
- 2. In cases where soybean curds are sold using a sanitary crate or box, the business operator may leave out a label on the individual units of the product if the req uired label information is placed on the crate/box or posted on a separate board.

Article 7 (Review Period) Pursuant to Article 8 of the Framework Act On Administra tive Regulations and the Regulations on the Issue and Management of Instructions

and Established Rules, this Notification shall be reviewed for its reasonableness an d necessary measures, such as making improvements thereto, shall be taken every three years (referring to the period until the day before January 1 of every third year) from January 1, 2014.

Addenda <No. 2014-114, April 24, 2014>

Article 1 (Enforcement Date) This Notification shall enter into force on the date of its announcement.

Article 2 (Transitional Measures) The GM foods, etc. manufactured, processed or imported (including those that have already been shipped for import) by a person or entity who has secured a business license or who has registered or reported as business operator according to *the Food Sanitation Act* and *Health Functional Foods Act* at the time when this Notification enters into force as well as GM foods, etc. of the same nature can be labeled following the previous labeling standards, provided that the date of manufacture or import date is not earlier than April 31, 2015. In this case, a product may be sold, displayed or transported for sales purposes, or used for business purposes until its expiry date.

Article 3 (Abolishment of Other Notifications) Labeling Guidelines for Genetically Modified Agricultural, Livestock and Fishery Products (MFDS Notification No. 2013-143, April 5, 2013) and Labeling Standards for Genetically Modified Foods,

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Etc. (MFDS Notification No. 2014-40, February 12, 2014) shall be abolished.

Addenda <No. 2017-7, January 25, 2017>

Article 1 (Enforcement Date) This Notification shall enter into force on February 4, 2017.

Article 2 (Application Example) This Notification shall apply to genetically modified foods, etc. that are manufactured, processed or imported (on the basis of the shipping date) after this Notification enters into force.

Notice

This material is translated from Korean to English, and there may be translation errors in the translation process.