

# DESIGNATION OF, AND SAFETY AND LABELING STANDARDS FOR, CONSUMER CHEMICAL PRODUCTS SUBJECT TO SAFETY VERIFICATION

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"Effective November 24, 2025. [Ministry of Climate, Energy and Environment Notification No. 2025–31, November 24, 2025, Partially Amended]"

## Article 1 (Purpose)

This Public Notice is established pursuant to Articles 3 (3) and (4), 8, 9, and 10 of the Act on Safety Management of Consumer Chemical Products and Biocides (hereinafter referred to as the "Act"); Articles 5 and 7 of the Enforcement Decree of the same Act (hereinafter referred to as the "Decree"); and Articles 5 and 7 of the Enforcement Rule of the same Act (hereinafter referred to as the "Rule"), to prescribe matters concerning the designation of consumer chemical products subject to safety verification, the establishment and verification of safety standards by product category, and the labeling requirements and methods thereof.

## Article 2 (Definitions)

The terms used in this Public Notice are defined as follows:

1. The term "product category" means a type of consumer chemical products subject to safety verification as designated in Attached Table 1;
2. The term "product name" means the unique name given to each product to distinguish it from other products;
3. The term "public-use facility" means a facility used by unspecified persons;
4. The term "daily living space" means a place at home, an office, or a public-use facility, etc. where a person does everyday activities or works: Provided, That the foregoing shall not apply to workspaces that are not generally used by many unspecified persons other than workers, such as production spaces in factories or maintenance spaces in automobile repair shops;
5. The term "person seeking to obtain verification" means a manufacturer or importer who can file an application with a testing and inspection institution to obtain verification as to whether a consumer chemical product subject to safety verification complies with the safety standards under Article 5, and a manufacturer shall be limited to the following persons:

- (a) A person who manufactures a product under his or her name or produces a product under his or her trademark through contract manufacturing, taking responsibility for the entire process from product design to manufacturing, sales, and compensation, etc., including planning and design of the product, management of raw and subsidiary materials, and liability to consumers: Provided, That no contract acceptor shall be considered a manufacturer;
  - (b) A person who is in charge of the entire process from design to development and manufacturing of a product and supplies the product under the trademark of another person placing the order;
6. The term "child-resistant packaging" means any packages and containers that are designed and devised to make it difficult for children under the age of 5 to take out the contents within a certain period of time, although it is not difficult for adults to open them;
  7. The term "derivative product" means a product which has the same purpose and formulation type as another product verified to comply with the safety standards and has no change in substances subject to the safety standards under Article 5, in which case the product verified to comply with the safety standards is called "representative product" and the derivative product shall not have the same name as the representative product;
  8. The term "surface suitable for labeling" means the product's outer surface or the surface of a product's package on which letters, figures, etc. can be displayed: Provided, That it shall not include the bottom or any joints including handles of product containers or the concave or convex surface on the top, bottom, or sides of the container that is usually difficult for consumers to see;
  9. The term "point" means the unit indicating the size of printing types as prescribed by the Korean Industrial Standard KS A 0201 (dimensions of printing types).
  10. "Humidifier" means an electrical and electronic product that has the function of supplying moisture into the air, regardless of the method of operation such as evaporation or heating, or the presence of additional functions such as air purification or dehumidification.

### **Article 3 (Designation of Consumer Chemical Products Subject to Safety Verification)**

The types of consumer chemical products subject to safety verification designated pursuant to Article 8 (3) of the Act shall be as listed in Attached Table 1.

#### **Article 4 (Establishment of Safety Standards)**

1. The safety standards for chemical substances under Article 9 of the Act shall reflect the results of the risk assessment under Article 8 of the Act: Provided, That in cases where the risk assessment has been already conducted by a domestic or overseas research and inspection institution on the relevant substance or where scientific testing and analysis data on risks are available or in other similar cases, the safety standards may be established based on such data.
2. Where a chemical substance contained in a product is recognized as having little concern for risk to public health or the environment in the course of use, such as when it is used as a pH adjuster and is neutralized, such substance may be excluded from the safety standards for chemical substances.
3. If it is objectively verified that a chemical substance that cannot be contained in a product has not been artificially added but exists unintentionally, and that it is technically impossible to completely remove such substance, permissible detection limit may be established to the extent that the result of the risk assessment under Article 8 of the Act indicates that the level recognized as posing a risk is not exceeded.

#### **Article 5 (Safety Standards)**

1. The safety standards applicable to consumer chemical products subject to safety verification designated pursuant to Article 9 of the Act shall be as follows:
  - (a) Safety standards for chemical substances by product category as specified in Attached Table 2;
  - (b) Safety standards for containers or packages, and their weight as specified in Attached Table 3;
  - (c) Safety standards for child-resistant packaging as specified in Attached Table 4.
2. If it is objectively verified that any prohibited substance, for which no detection limit is prescribed in the safety standards under subparagraph 1 of paragraph (1), unintentionally exists, such as being transferred from packaging materials during the production or storage process, and that it is technically impossible to completely remove such substance, the detection limit may be allowed only to the extent that the result of the risk assessment conducted by the President of the Korea Environmental Industry and Technology Institute pursuant to Article 8 of the Act indicates that the level recognized as posing a risk is not exceeded: Provided, That data on hazards and other matters

necessary for the risk assessment shall be submitted to the president by the person requesting the establishment of the detection limit.

3. A safety-checked household chemical product formulated with a type, use, or hazardous chemical substance that has not been reflected in the safety standards prescribed in subparagraph 1 of paragraph (1), or for which no test method exists, may be permitted only when the risk assessment under Article 8 of the Act determines that it is not recognized as posing any risk. In such case, the product shall be deemed to comply with the safety standards prescribed in subparagraph 1 of paragraph (1) (limited to chemical substances that have undergone a risk assessment). Provided, That materials concerning hazard, etc. necessary for the risk assessment shall be submitted, along with an application for risk assessment in attached Form 6, to the president by the person who requests the risk assessment.
4. Where a person intends to obtain confirmation of conformity only to the safety standards under any subparagraph of paragraph (1) because of changes in the shape or material of a product container or for other similar reasons after having obtained confirmation of conformity to the safety standards under paragraph (1), he or she may obtain confirmation only for the relevant subparagraph: Provided, That in cases where the confirmation is obtained for the first time or for renewal of its period of validity, confirmation shall be obtained for all of the safety standards under the subparagraphs of paragraph (1).
5. Where a person intends to obtain verification of compliance with the standards for child-resistant packaging under paragraph (1) 3, he or she shall submit to a testing and inspection institution an application for verification of children-resistant packaging in attached Form 7, either when filing an application for verification of consumer chemical products subject to safety verification pursuant to Article 10 (1) of the Act and Article 5 (1) of the Enforcement Rule or before filing such application, and obtain a certificate of confirmation; and in cases of a change in any relevant details after the issuance of such confirmation, he or she shall file an application for change of children-resistant packaging in attached Form 8 and shall be issued with a written confirmation of filing for change.
6. With respect to any product derived (hereinafter referred to as "derivative product") from another product that is verified to comply with the safety standards under paragraph (1) (hereinafter referred to as "representative product"), it is deemed that the representative product has complied with the safety standards under paragraph (1) on behalf of the derivative product.

7. Where a person defined in subparagraph 5 (b) of Article 2 obtains verification of compliance with the safety standards for a product in order to supply the same kind of products to several persons placing an order, the safety standards under paragraph (1) shall be deemed to comply with for an individual product supplied to each person placing an order.
8. Where a product has obtained confirmation of conformity with the safety standards prescribed in paragraph (1) from a testing and inspection institution within 90 days prior to the expiration date of the validity period of confirmation pursuant to Article 10 (3) of the Act (including Saturdays and public holidays in the calculation), such confirmation shall be deemed to have been obtained on the day following the expiration date of the validity period.

If the confirmation of conformity with the safety standards is renewed within 90 days prior to the expiration date of the validity period (including Saturdays and public holidays in the calculation), the validity period of the confirmation shall be three years from the date of the renewed confirmation.

#### **Article 6 (Labeling Standards)**

1. Labeling items required to be indicated on the surface or package of a consumer chemical product subject to safety verification pursuant to Article 10 (6) of the Act and Article 7 of the Enforcement Rule of the same Act shall be as specified in Attached Table 5.
2. Detailed methods of labeling matters specified in paragraph (1) on the surface or package of a consumer chemical product subject to safety verification shall be as prescribed in Attached Table 6.
3. Statements subject to restrictions on labeling for a consumer chemical product subject to safety verification shall be as prescribed in Article 34 (1) of the Act and Article 34 (1) of the Enforcement Rule of the same Act.

#### **Article 7 (Verification of Safety Standards and Documents to Be Submitted for Reporting)**

1. Products and documents to be submitted to a testing and inspection institution and the scope and methods of preparing the documents to be submitted for reporting to the President of the Korea Environmental Industry and Technology Institute pursuant to Article 5 (7) of the Enforcement Rule by a person seeking to obtain verification as to whether a consumer chemical product subject to safety verification meets the safety standards under Article 5, shall be as specified in Attached Table 7.

2. When the President of the Korea Environmental Industry and Technology Institute issues to an applicant a certificate of reporting verification of compliance with the safety standards to an applicant, the guidelines for assigning a report number for a consumer chemical product subject to safety verification shall be as specified in Attached Table 8.

#### **Article 8 (Exception to Application of Safety Standards)**

Among consumer chemical products subject to safety verification designated pursuant to Article 3, those whose safety standards have not been publicly announced and therefore shall be approved by the President of the National Institute of Chemical Safety pursuant to Article 10 (6) of the Act (hereinafter referred to as “products subject to approval”), shall be as follows: and the necessary matters concerning the standards for approving products subject to approval shall be governed by the Regulations on Approval of Consumer Chemical Products Subject to Safety Verification publicly announced by the President of the National Institute of Chemical Safety:

1. Antibacterial and disinfectant agents for humidifiers;
2. Sterilizing and disinfectant agents to prevent infectious diseases;
3. Insecticides to destroy, repel, prevent, and attract insects for public health;
4. Repellents for public health;
5. Insecticides to prevent infectious diseases;
6. Rodenticides to prevent infectious diseases;
7. Consumer chemical products for humidifiers;
8. Preservative treatment product for humidifiers.

#### **Article 9 (Operation of Committees, etc.)**

The President of the Korea Environmental Industry and Technology Institute may establish and operate the Committee for Review of Misidentification or Confusion with Food in Household Chemical Products to determine whether a product is ambiguous in terms of misidentification or confusion with food under the safety standards for containers or packaging and their weight specified in Attached Table 3.

#### **Article 10 (Re-Examination of Regulation)**

Pursuant to Article 8 of *the Framework Act on Administrative Regulations and the Rules on the Issuance and Management of Directives and Established Rules* (Presidential Directive No. 248), the validity of this Notice shall be reviewed as of

January 1, 2025, and every three years thereafter (by December 31 of every third year), and measures shall be taken such as making improvements.

ADDENDA <No. 2019–45, Feb. 12, 2019>

**Article 1 (Enforcement Date)**

This Public Notice shall take effect on the date of its promulgation.

**Article 2 (Transitional Measures concerning Labeling Standards for Products Subject to Approval)**

With respect to consumer chemical products subject to safety verification referred to in any subparagraph of Article 8 for which permission by product category has been obtained or a notification by product category has been accepted pursuant to Articles 31 (4) and 42 (1) of the previous Pharmaceutical Affairs Act before the enforcement of this Public Notice, labeling in accordance with the previous provisions may be applied in lieu of the labeling standards under Article 6 for products manufactured or imported by December 31, 2019.

**Article 3 (Special Cases concerning Safety Standards and Labeling Standards for Products Used in Public–Use Facilities)**

With respect to consumer chemical products subject to safety verification, such as cleaners and disinfectants that are professionally used by workers employed directly or under an entrustment contract for hygiene management in multi–use facilities, the safety standards under Article 5 and the labeling standards under Article 6 shall apply to products manufactured or imported on or after July 1, 2020.

**Article 4 (Transitional Measures concerning Safety Standards and Labeling Standards for Previous Products of Risk Concern)**

1. (1) Any product of risk concern that was assigned a self–inspection certification number pursuant to Article 6 (3) of the previous Public Notice on the Designation of, and Safety and Labeling Standards for, Products of Risk Concern, prior to the enforcement of this Public Notice, shall be governed by the provisions of the previous Public Notice in place of the safety standards under Article 5 and the labeling standards under Article 6 during the transitional period prescribed in Article 2 (2) of the Addenda to the Act. In such cases, if any changes occur as prescribed in Article 13 of the previous Public Notice during the transitional period, a report on such changes shall be filed in accordance with the provisions of the previous Public Notice.

2. (2) Any product of risk concern that, as of the enforcement of this Public Notice, has not been issued an inspection report pursuant to Article 6 (3) of the previous Public Notice on the Designation of, and Safety and Labeling Standards for, Products of Risk Concern after having requested testing and inspection under Article 6 (1) thereof, shall be deemed to be a consumer chemical product subject to safety verification for which an application for verification of safety standards has been filed under Article 10 (1) of the Act. In such cases, the safety standards under Article 5 and the labeling standards under Article 6 shall apply to the relevant product from March 1, 2019, and the previous Public Notice shall apply prior to that date.
3. Any product that falls under the same model category (hereinafter referred to as a “derivative model product”) as a product that has obtained verification of compliance with safety standards by product model (hereinafter referred to as a “representative model product”) pursuant to Article 6 (1) of the previous Public Notice on the Designation of, and Safety and Labeling Standards for, Products of Risk Concern before the enforcement of this Public Notice, shall be deemed to have obtained verification of compliance with safety standards within the validity period of the verification of the representative model product.

**Article 5 ((Applicability of Safety and Labeling Standards to New Product Categories under Control)**

With respect to any of the following consumer chemical products subject to safety verification, the safety standards under Article 5 and the labeling standards under Article 6 shall apply to products manufactured or imported on or after July 1, 2019: Provided, however, That in the case of subparagraphs 1 through 3, the foregoing shall apply to products manufactured or imported on or after January 1, 2020.

1. Disinfectants (limited to those for air disinfection, only for children's products, and for tooth brushes or tongue cleaners);
2. Insect repellents (limited to those for winged insects);
3. Preservative–treated filter products;
4. Artificial snow sprays;
5. Candles (limited to those made of soy wax other than conventional paraffin).

**Article 6 (Applicability to Safety Standards to Newly Substances under Control)**

In the safety standards for chemical substances by product category as prescribed in Attached Table 2, the provisions concerning "preservative substances and preservatives that can be used in products as specified in I. General Standards", "the standards for content of substances used in products as specified in II. Safety Standards by Product Category", and "preservative substances that can be used in spray-type products" shall apply to products manufactured or imported on or after January 1, 2020: Provided, That the provisions concerning "the standards for content of substances used in products" and "preservative substances that can be used in spray products" which are prescribed for cleaners, remover, air fresheners, and deodorizing agents shall apply on the date this Public Notice enters into force.

**Article 7 (Applicability to Safety Standards for Child-Resistant Packaging)**

The safety standards for child-resistant packaging under Article 5 (1) 3 shall apply to products manufactured or imported on or after January 1, 2020: Provided, however, That cleaners, coatings, adhesives, air fresheners, and antifreezes that are subject to child-resistant packaging requirements under Attached Table 6 of the previous Public Notice on the Designation of, and Safety and Labeling Standards for, Products of Risk Concern before the enforcement of this Public Notice shall either comply with the previous standards for products of risk concern required to use child-resistant packaging or, in advance, apply the safety standards for child-resistant packaging prescribed in this Public Notice until December 31, 2019.

**Article 8 (Applicability of Restrictions on Labeling Statements)**

The statements subject to restrictions on labeling for consumer chemical products subject to safety verification under Article 6 (3) shall apply to products manufactured or imported on or after January 1, 2020.

**Article 9 (Transitional Measures concerning Testing and Inspection Institutions)**

A testing and analysis institution defined in subparagraph 4 of Article 2 of the previous Designation of, and Safety and Labeling Standards for, Products of Risk Concern before the enforcement of this Public Notice may conduct a testing and inspection to determine whether a product complies with the safety standards as prescribed in this Public Notice before such institution is designated as a testing and inspection institution under Article 41 of the Act: Provided, That the designation of testing and inspection institutions shall be governed by the Public Notice of the National Institute of Environmental Research titled Regulations on Designation, Evaluation, and Management of Testing and Inspection Institutions for Consumer Chemical Products

and Biocides.

ADDENDA <No. 2020–117, Jun. 5, 2020>

**Article 1 (Enforcement Date)**

This Public Notice shall take effect on the date of its promulgation.

**Article 2 (Transitional Measures concerning Newly Controlled Product Categories)**

With respect to consumer chemical products subject to safety verification which are included in the amendments to the types of consumer chemical products subject to safety verification in Attached Table 1, the safety standards under Article 5 and the labeling standards under Article 6 shall apply to products manufactured or imported on or after January 1, 2021.

**Article 3 (Applicability to Safety Standards for New Substances under Control)**

The safety standards for “microplastics” among prohibited substances for cleaners, removers, laundry detergents, bleaching agents, and fabric softeners as prescribed in “II. Safety Standards by Product Category” in the amendments to the safety standards for chemical substances by product category in Attached Table 2 shall apply to products manufactured or imported on or after January 1, 2021.

ADDENDA <No. 2021–150, Jul. 30, 2021.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

**Article 2 (Applicability to New Items Subject to Control)**

For lubricants, the safety standards under Article 5 and the labeling standards under Article 6 shall take effect for products manufactured or imported on or after January 1, 2022.

**Article 3 (Applicability Concerning Safety Standards for New Substances Subject to Control)**

1. Amendments to safety standards for chemical substances by product category according to Attached Table 2 shall take effect for products manufactured or imported after the effective date.
2. Notwithstanding paragraph (1), for consumer chemical products subject to safety verification that fall under any of the following subparagraphs, from the volume-restricted substances set in “II. Safety Standards by Product Category” among the amendments, “volume standards in product content substances” shall be applied to products manufactured or imported on or after January 1, 2023 and

“biodegradability” shall be applied to products manufactured or imported on or after July 1, 2022.

- (a) Cleaners;
- (b) Gloss coatings;
- (c) Air freshener;
- (d) Disinfectant.

#### **Article 4 (Special Cases Concerning Safety Standards for Benzalkonium Chloride)**

Notwithstanding Article 3 of the Addenda, for benzalkonium chloride among the amendments to the safety standards for chemical substances by Product Category according to Attached Table 2, “Standards for prohibited substances in the I. General standards” shall take effect for products manufactured or imported on or after January 1, 2023.

#### **Article 5 (Special Cases Concerning Safety Standards for Active Ingredients for Use in Biocidal Products)**

Notwithstanding Article 3 of the Addenda, for consumer chemical products subject to safety verification that fall under any of the following subparagraphs, if a certificate of report is issued pursuant to Article 10 (4) of the Act for consumer chemical products subject to safety verification before the effective date (including products whose validity period has expired under Article 10 (3) of the Act and need to be re-confirmed for conformity with safety standards), among the amendments to the safety standards for chemical substances by Product Category according to Attached Table 2, the safety standards for usable active ingredients shall take effect for products manufactured or imported on or after January 1, 2024. Existing biocidal substances that can be used in biocidal products announced pursuant to Article 18 (3) of the Act may be used only when the grace period for approval under Article 3 of the Addenda of the Act has not elapsed.

1. Disinfectants;
2. Algicides;
3. Repellents;
4. Preservatives for wood.

#### **Article 6 (Applicability Concerning Labeling Standards)**

Amendments to “Important precautions for use by each product” specified in “II. Specific labeling for each product” among the labeling matters for consumer chemical products subject to safety verification according to Attached Table 5 and

“Fluorescent brightener” among 17. Chemical substances used in products specified in “II. Labeling method by labeling item” among the labeling methods for consumer chemical products subject to safety verification according to Attached Table 6 shall take effect for products manufactured or imported on or after July 1, 2022.

ADDENDA <No. 2022-19, Jan. 19, 2022.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

ADDENDA <No. 2022-218, Sep. 16, 2022.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

**Article 2 (Application of Safety and Labeling Standards for Newly Regulated Products and Uses)**

For any safety-checked household chemical products falling under any of the following subparagraphs, the safety standards under Article 5 and the labeling standards under Article 6 shall apply to products manufactured or imported on or after January 1, 2024:

1. Finish agents
2. Hardeners
3. Hardening accelerators
4. Cleaners/Brightener for Sporting goods
5. Cleaners (limited to those for filters)
6. Gloss coatings (limited to those for metal ornaments)
7. Special purpose coatings (limited to those for leather softening)
8. Disinfectants (limited to those for filters or electrolytic sterilizers)

**Article 3 (Application of Safety Standards for Chemical substances by product category)**

Amendments to the safety standards for chemical Substances by product category under Attached Table 2 shall apply to products that obtain confirmation of conformity with the safety standards under Article 10 of the Act on or after January 1, 2024.

**Article 4 (Application of Safety Standards for Containers, Packaging and their Weight)**

Amendments to the safety standards for containers, packaging and weight under

Attached Table 3 shall apply to products that obtain confirmation of conformity with the safety standards under Article 10 of the Act on or after January 1, 2024.

**Article 5 (Application of Labeling Standards)**

Amendments to the labeling items and methods under Attached Tables 5 and 6 shall apply to products that obtain confirmation of conformity with the safety standards under Article 10 of the Act on or after January 1, 2024.

**Article 6 (Special Case on Application Date)**

Notwithstanding Articles 2 through 5, any person intending to obtain confirmation may voluntarily apply the amended safety standards or labeling standards under this Notice prior to their effective date.

ADDENDA <No. 2023–59, Mar. 29, 2023.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

ADDENDA <No. 2023–163, Jul. 6, 2023.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

**Article 2 (Application of Labeling Standards)**

Amendments to “II. Product–specific Labeling Requirements” under Specific Matters to Be Labeled on Consumer Chemical Products Subject to Safety Verification concerning “Essential Precautions for Use by Product” shall apply to products manufactured or imported on or after the effective date of this Notice.

ADDENDA <Public Notice of the Ministry of Environment No. 2024–87, Apr.19, 2024.>

**Article 1 (Enforcement Date)**

This Notice shall take effect on January 1, 2025: Provided, That the matters specified in each of the following subparagraphs shall take effect on the respective dates set forth therein.

The following items shall be effective from the date it is issued:

1. Amendments to Article 2 (10), Article 5 (3), and Article 8;
2. Amendments to Safety Standards for Chemical Substances by Product Category, Part I (General Standards), Section 1 (Classification of Types) and Section 3 (Permitted Preservatives);
3. Amendments to biodegradability provisions in Part 2 (Laundry Products), Chapter 1 (Laundry Detergents), Section 4, and Chapter 3 (Fabric Softeners), Section 4;

4. Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 5 Air freshener product group, chapter 1 Air fresheners, Section 2 prohibited substances and section 3 restricted substances for sustained-release products, chapter 2 Deodorizing agents, Section 2 prohibited substances and section 3 restricted substances for sustained-release products;

5. Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 1 Detergent products group, Chapter 1 Cleaners, Section 4 Preservative substances Permitted for Use in products, Item 2), Chapter 2 Removers, Section 4 Preservative substances Permitted for Use in products, Item 2).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 2 Laundry products group, Chapter 1 Laundry detergents, Section 5 Preservative substances Permitted for Use in products, Item 2) and 3), Chapter Chapter 2 Bleaching agents, Section 4 Preservative substances Permitted for Use in products, Item 2) and 3), Chapter 3 Fabric softeners, Section 5 Preservative substances Permitted for Use in products, Item 2) and 3).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 3 Coating products group, Chapter 1 Gloss coatings, Section 4 Preservative substances Permitted for Use in products, Item 2), Chapter 2 Special purpose coatings, Section 4 Preservative substances Permitted for Use in products, Item 2), Chapter 3 Anti-rust additives, Section 4 Preservative substances Permitted for Use in products, Item 2), Chapter 5 Ironing auxiliaries, Section 4 Preservative substances Permitted for Use in products, Item 2).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 4 Adhesives product group, Chapter 1 Adhesives, Section 4 Preservative substances Permitted for Use in products, Item 2), Chapter 2 Gap and crack fillers, Section 4 Preservative substances Permitted for Use in products, Item 2) and 3).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 5 Air freshener product group, Chapter 1 Air fresheners, Section 4 Preservative substances Permitted for Use in products, Item 2) and 3), Chapter 2 Deodorizing agents, Section 4 Preservative substances Permitted for Use in products, Item 2) and 3).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 6 Dye and colorant painting product group, Chapter 1 Dye agents, Section 4 Preservative substances Permitted for Use in

products, Item 2), Chapter 2 Colorant painting agents, Section 4 Preservative substances Permitted for Use in products, Item 2).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 8 Printing and documents–related product group, Chapter 1 Ink cartridges and toners, Section 4 Preservative substances Permitted for Use in products, Item 2).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 9 Beauty product group, Chapter 1 Adhesives for beauty, Section 4 Preservative substances Permitted for Use in products, Item 2).

Amendments to Safety Standards for Chemical Substances by Product Category, II. Safety Standards by Item, Part 14 Other product group, Chapter 2 Dehumidifying agent, Section 3 Preservative substances Permitted for Use in products, Item 2), Chapter 3 Artificial snow spray, Section 4 Preservative substances Permitted for Use in products, Item 2);

6. Amendments to Safety Standards for Containers, Packaging and their Weight, Part I (Containers and Packaging), Section 2 (Scope of Application of Safety Standards), and Part II (Weight or Volume), Section 1 (Safety Standards);

7. Amendments to Attached Table 5, Part II (Product–specific Labeling Requirements), Subsection 1 (Precautions for Use), and Subparagraph (b) (Recommended Precautionary Statements);

8. Amendments to Attached Table 6.

Amendments to Safety Standards for Containers, Packaging and their Weight, Part I (Containers and Packaging), Section 1 (Strength and Leakage), and amendments to Attached Table 4 shall take effect on July 1, 2024.

## **Article 2 (Application of Safety Standards for Chemical Substances by Product Category)**

The amended provisions of Safety Standards for Chemical Substances by Product Category shall apply to products manufactured or imported on or after January 1, 2025: Provided, That amendments promulgated pursuant to subparagraphs (b) through (e) of Article 1 (1) of the Addenda shall apply to products manufactured or imported on or after the date of promulgation of this Public Notice.

## **Article 3 (Application of Safety Standards for Containers, Packaging and their Weight)**

The amended provisions of Safety Standards for Containers, Packaging and their Weight shall apply to products manufactured or imported on or after July 1, 2024: Provided, That amendments under subparagraph (f) of Article 1 (1) shall apply to products manufactured or imported on or after the date this Notice is issued.

**Article 4 (Application of Safety Standards for Child-Resistant Packaging)**

The amended provisions of Attached Table 4 shall apply to products manufactured or imported on or after July 1, 2024.

**Article 5 (Application of Labeling Requirements for Safety-checked Household Chemical Products)**

Amended provisions of Attached Table 5 shall apply to products manufactured or imported on or after January 1, 2025: Provided, however, That amendments promulgated pursuant to subparagraph (g) of Article 1 (1) of the Addenda shall apply to products manufactured or imported on or after the date of promulgation of this Public Notice.

**Article 6 (Application of Labeling Methods for Safety-checked Household Chemical Products)**

The amended provisions of Attached Table 6 shall apply to products manufactured or imported on or after the date of promulgation of this Public Notice.

ADDENDA <No. 2024-89, Apr.30, 2024.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued (April 30, 2024).

ADDENDA <No. 2024-139, Jul.15, 2024.>

**Article 1 (Enforcement Date)**

This Public Notice shall take effect on January 1, 2025: Provided, That the amended provisions of Article 9 shall take effect on the date it is issued.

**Article 2 (Application of Labeling Methods for Safety-checked Household Chemical Products)**

The amended provisions of Attached Table 6 shall apply to products manufactured or imported on or after January 1, 2025.

ADDENDA <No. 2025-31, Nov.24, 2025.>

**Article 1 (Enforcement Date)**

This Notice shall be effective from the date it is issued.

**Article 2 (Application of Labeling Standards)**

Amendments to the labeling items and methods under Attached Tables 2 and 5 shall

apply to products manufactured or imported on or after July 1, 2026. Provided, however, that a person seeking to obtain verification may apply the labeling standards according to the amended provisions to products manufactured or imported prior to July 1, 2026.

[Attached Table 1]

## Types of Consumer Chemical Products Subject to Safety Verification

Classification	Items
Part 1. Detergent products group	<ol style="list-style-type: none"> <li>1. Cleaners</li> <li>2. Remover</li> </ol>
Part 2. Laundry product group	<ol style="list-style-type: none"> <li>1. Laundry detergents</li> <li>2. Bleaching agents</li> <li>3. Fabric softeners</li> </ol>
Part 3. Coating product group	<ol style="list-style-type: none"> <li>1. Gloss coatings</li> <li>2. Special purpose coatings</li> <li>3. Anti-rust additives</li> <li>4. Lubricants</li> <li>5. Ironing auxiliaries</li> <li>6. Finish agents</li> <li>7. Hardeners</li> </ol>
Part 4. Adhesive product group	<ol style="list-style-type: none"> <li>1. Adhesives</li> <li>2. Gap and crack fillers</li> <li>3. Hardening accelerators</li> </ol>
Part 5. Air freshener product group	<ol style="list-style-type: none"> <li>1. Air fresheners</li> <li>2. Deodorizing agents</li> </ol>
Part 6. Dye and colorant painting product group	<ol style="list-style-type: none"> <li>1. Dye agents</li> <li>2. Colorant painting agents</li> </ol>
Part 7. Auto product group	<ol style="list-style-type: none"> <li>1. Windshield washer fluids for automobiles</li> <li>2. Engine antifreezes</li> </ol>
Part 8. Printing and documents-related product group	<ol style="list-style-type: none"> <li>1. Ink cartridges and toners</li> <li>2. Red seal ink pads</li> <li>3. Correction fluids and tapes</li> </ol>
Part 9. Beauty product group	<ol style="list-style-type: none"> <li>1. Adhesives for beauty</li> </ol>
Part 10. Management product group for Leisure goods	<ol style="list-style-type: none"> <li>1. Cleaners/Brightener for Sporting goods</li> </ol>

Classification	Items
Part 11. Disinfection product group	<ol style="list-style-type: none"> <li>1. Disinfectants</li> <li>2. Algicides</li> <li>3. Antibacterial and disinfectant agents for humidifiers</li> <li>4. Sterilizing and disinfectant agents to prevent infectious diseases</li> </ol>
Part 12. Insect repellent product group	<ol style="list-style-type: none"> <li>1. Insect repellents</li> <li>2. Insecticides to destroy, repel, prevent, and attract insects for public health</li> <li>3. Repellents for public health</li> <li>4. Insecticides to prevent infectious diseases</li> <li>5. Rodenticides to prevent infectious diseases</li> </ol>
Part 13. Preservative products and preservative-treated products	<ol style="list-style-type: none"> <li>1. Wood preservatives</li> <li>2. Preservative-treated filter product</li> </ol>
Part 14. Other product group	<ol style="list-style-type: none"> <li>1. Candle</li> <li>2. Dehumidifying agent</li> <li>3. Artificial snow spray</li> <li>4. Fog fluid for performance</li> <li>5. Consumer chemical products for humidifiers</li> <li>6. Preservative treatment product for humidifiers</li> </ol>

[Attached Table 2]

## Safety Standards for Chemical Substances by Product Category

### I. General standards

#### 1. Categories of formulation types

The formulation types of consumer chemical products subject to safety verification shall be categorized as specified in Table 1, and one formulation type in the classification shall apply to a product: Provided, That where another formulation type is prescribed in the safety standards by item, the relevant formulation type shall prevail over the formulation types specified in the general standards.

**<Table 1> Categories of Formulation Types of Consumer Chemical Products Subject to Safety Verification**

Category	Classification
Aerosol	Sprayer type (including foam type), spray type <sup>(1)</sup> , fumigation type, combustion type, haze type, filter type, refillable type <sup>(2)</sup> , sustained-release type, and others <sup>(3)</sup>
Non-aerosol	Liquid type, emulsion type (including paste, lotion and gel types), foam type, solid type (including tablet, pastel, and stick types), hot melt type, powder type, tissue type, capsule type, cartridge type, pen type, brush type, bracelet type, patch type, impregnation type, tank type, refillable type <sup>(2)</sup> , and others <sup>(3)</sup>

Note (1) Referring to aerosol products using high pressure gas, low pressure gas, etc.

(2) The formulation type of the original product shall also be stated.

(3) The detailed formulation types shall also be stated.

#### 2. Prohibited substances contained in products

The chemical substances that cannot be that are prohibited from being contained in consumer chemical products subject to safety verification shall be as prescribed in Table 2.

**<Table 2> Prohibited Substances Contained in Products**

<b>Serial No.</b>	<b>Substance name</b>	<b>Formulation type<sup>(4)</sup></b>
1	Polyhexamethylene guanidine (PHMG)	Aerosol
2	Oligo(2-(2-ethoxy)ethoxyethyl guanidinium chloride (PGH)	Aerosol
3	Poly(hexamethylenebiguanide) hydrochloride (PHMB)	Aerosol
4	Methylisothiazolinone (MIT)	Aerosol
5	5-Methylchloroisothiazolinone (CMIT)	Aerosol
6	Benzalkonium chloride <sup>(5)</sup>	Aerosol
7	Sodium dichloroisocyanurate (NaDCC)	Aerosol
8	Substances prohibited from use under the Persistent Organic Pollutants Control Act and other relevant laws and regulations	Aerosol

Note (4) Air fresheners shall apply to all formulation types.

(5) Benzalkonium chloride (C12–C18, alkylbenzyltrimethylammonium chloride)

### **3. Preservative substances and preservatives that can be used in products**

Where active substances and preservatives are used for the preservation or storage of products to ensure their shelf life, only the following substances and products may be used: Provided, That where preservatives permitted for use in products are separately prescribed in II. Safety Standards by Item, the relevant safety standards by Item shall prevail over the general standards, and only preservatives permitted for use in products as prescribed in II. Safety Standards by Item may be used for aerosol products:

- 1) Approved active substances to be used as preservatives under Article 12 of the Act and low-risk active substances prescribed by public notice of the President of the National Institute of Chemical Safety under subparagraph 1 of Article 12 (1) of the Act;
- 2) Existing active substances that can be used as preservatives under Article 18 (3) of the Act: Provided, That such substances may be used within the period of approval deferment by each substance;
- 3) Biocidal products approved for use as preservatives under subparagraph 1 of Article 28 (1) of the Act.

#### **4. Exclusion of product uses**

Products that are worn, attached, or inserted directly on or into the human body and may cause harm to the human body.

## II. Safety Standards by Item

### Part 1 Detergent products group

#### Chapter 1 Cleaners

##### 1. Scope of application

Cleaner means a chemical product to wipe stains and foreign substances off an object with a chemical substance and rinse with water in daily living spaces such as homes, offices, public-use facilities and vehicles, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Quasi-drugs (including contact lens care products) under subparagraph 7 (b) of Article 2 of the Pharmaceutical Affairs Act;
- 2) Cleansing and hygiene products (including cleaning agents, rinse aids) under subparagraph 1 of Article 2 of the Cleansing and Hygiene Products Control Act;
- 3) Cosmetics under subparagraph 1 of Article 2 of the Cosmetics Act (covering baby and child-specific products, bath and shower products, and skin cleansing products);
- 4) Cleaners for products that are likely to cause harm to the human body as they are worn on, inserted into, or have contact with the human body (including cleaners for wigs, menstrual cups);
- 5) Cleaners used for medical practices in hospitals, etc. but not in daily living spaces (including medical device cleaners).

**<Table 1> Purposes of Cleaners**

General use	Cleaning of ovens, range hoods, bathrooms, toilets, carpets, washing machines, drains, building floors, dress shoes, furniture, musical instruments, filters <sup>(1)</sup> , and other surfaces <sup>(2)</sup>
Automobile	Indoor and outdoor use <sup>(3)</sup>

Note (1) Limited to products used for air purifier filters and air-cleaning filters installed in air conditioners.

(2) Detailed purposes of use shall be stated together, and cleaning agents for sporting goods (such as golf equipment, bowling equipment, and table tennis equipment) shall be classified as cleaning and polishing agents for sporting goods.

(3) Windshield washer fluids for automobiles are excluded.

## 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Applied product and formulation type	Detection limit
1	Arsenic and its compounds	All products (all formulation types)	As arsenic, not more than 5
2	Tetrachloroethylene	All products (all formulation types)	Not more than 5
3	Trichloroethylene	All products (all formulation types)	Not more than 5
4	Vinyl chloride	All products (all formulation types)	Not more than 5
5	Dichloromethane	All products (all formulation types)	_(4)
6	Lead and its compounds	All products (all formulation types)	As lead, not more than 1

Serial No.	Substance name	Applied product and formulation type	Detection limit
7	Ethyl bromide	All products (all formulation types)	_(4)
8	Nonylphenols	All products (all formulation types)	_(4)
9	Microplastics <sup>(3)</sup>	All products (all formulation types)	_(4)
10	1,3-Butadiene	General use, automotive use <sup>(6)</sup> (all formulation types)	Not more than 5

Note (4) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(5) Solid plastic particles not more than 5 mm that do not dissolve in water and are used intentionally for cleaning, polishing, and peeling purposes

(6) Limited to indoor use

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall be in compliance with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use <sup>(7)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use	Outdoor use
1	Formaldehyde	Not more than 60	Not more than 60	Not more than 60	Not more than 120
2	Benzene	Not more than 10	Not more than 10	Not more than 10	Not more than 60
3	Hydrochloric acid or sulfuric acid <sup>(8)</sup>	As HCl, less than 0.04%	As HCl, less than 10%	As HCl, less than 0.04%	As HCl, less than 2%

Serial No.	Substance name	General use <sup>(7)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use	Outdoor use
4	Sodium hydroxide or Potassium hydroxide <sup>(9)</sup>	As NaOH, less than 5%	As NaOH, less than 5%	As NaOH, less than 5%	As NaOH, less than 5%
5	1,2-Dichloropropane	Not more than 10	Not more than 10	Not more than 10	Not more than 80
6	1-Methoxy-2-propanol	Not more than 400	Not more than 400	Not more than 400	Not more than 4,400
7	Cerium oxide	As cerium, not more than 160	As cerium, not more than 15	As cerium, not more than 15	_(10)
8	1,3-Butadiene	Prohibited from being contained	Prohibited from being contained	Prohibited from being contained	Not more than 20
9	Diethanolamine	Not more than 1,000	Not more than 700	Not more than 2,000	Not more than 75,000

Note (7) Referring to all products other than those only for automobiles

(8) Applying to cleaners containing hydrochloric acid or sulfuric acid, and the standards are such products' maximum permissible acid content.

(9) Applying to cleaners containing sodium hydroxide or potassium hydroxide, and the standards are such products' maximum permissible base content.

(10) No content limit

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol		Non-aerosol	
		General use <sup>(11)</sup>	Automobile (outdoor use)	General use <sup>(11)</sup>	Automobile (outdoor use)
1	Propylene glycol	Not more than 35	_(12)	Not more than 30	_(12)
2	Formic acid	Not more than 0.5	Not more than 50	Not more than 1	Not more than 10
3	Methanol	Not more than 2	Not more than 35	_(12)	_(12)
4	2-Propanol	Not more than 10	_(12)	Not more than 20	_(12)
5	Acetone	Not more than 10	Not more than 10	_(12)	_(12)
6	Naphthalene	Not more than 0.2	Not more than 10	Not more than 0.01	Not more than 0.2
7	Benzyl alcohol	Not more than 13	Not more than 65	Not more than 3	_(12)
8	Ethylene glycol	Not more than 35	_(12)	Not more than 20	_(12)
9	Glutaraldehyde	Not more than 0.02	Not more than 6	Not more than 0.002	Not more than 15
10	Methyl salicylate	Not more than 20	Not more than 20	_(12)	_(12)
11	Benzyl benzoate	Not more than 0.1	Not more than 0.1	Not more than 20	_(12)
12	Ethanolamine	Not more than 0.04	Not more than 0.4	Not more than 0.04	Not more than 0.4
13	Xylene (mixture of o-,m-,p-isomers)	Not more than 3	Not more than 8	Not more than 2	Not more than 20
14	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 8	Not more than 16	_(12)	_(12)
15	Triclosan	Not more than 2	Not more than 2	Not more than 2	_(12)

Serial No.	Substance name	Aerosol		Non-aerosol	
		General use <sup>(11)</sup>	Automobile (outdoor use)	General use <sup>(11)</sup>	Automobile (outdoor use)
16	Didecyldimethylammonium chloride	Not more than 0.1	Not more than 0.4	Not more than 1	Not more than 15
17	Benzalkonium chloride <sup>(13)</sup>	Prohibited	Prohibited	Not more than 3.5	Not more than 60
18	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 0.1	Not more than 0.3	Not more than 0.3	Not more than 5.8
19	Dipropylene glycol methyl ether	Not more than 45	_(12)	Not more than 10	_(12)
20	2-Butoxyethanol (butyl cellosolve)	Not more than 4	Not more than 14	Not more than 3	Not more than 25
21	Ethanol	_(12)	_(12)	Not more than 45	_(12)
22	3-Iodine-2-propyl butyl carbamate (IPBC)	_(12)	_(12)	Not more than 10	Not more than 65
23	Phenylethanol	Not more than 10	_(12)	Not more than 55	_(12)
24	2,6-Di-tert-butyl-p-cresol	Not more than 2	Not more than 2	Not more than 2	Not more than 40
25	Triethanolamine	Not more than 2	_(12)	Not more than 70	_(12)
26	Hydrogen peroxide	Not more than 0.3	Not more than 1	Not more than 0.1	Not more than 1
27	Morpholine	Not more than 5	_(12)	Not more than 1	Not more than 7
28	Ethylenediaminetetraacetic acid	_(12)	Not more than 10	_(12)	Not more than 3
29	Glyoxal	Not more than 0.01	_(12)	Not more than 0.002	Not more than 15
30	Ethylene oxide	Not more than 3	_(12)	Not more than 0.4	_(12)
31	Benzoic acid	Not more than 1	_(12)	Not more than 20	Not more than 65
32	Hydrogen fluoride	Not more than 10	_(12)	_(12)	_(12)
33	Sodium 2-pyridinethiol 1-oxide	Not more than 15	Not more than 0.3	Not more than 0.02	Not more than 15
34	Zinc pyrithione	Not more than 0.1	_(12)	Not more than 55	_(12)

Serial No.	Substance name	Aerosol		Non-aerosol	
		General use <sup>(11)</sup>	Automobile (outdoor use)	General use <sup>(11)</sup>	Automobile (outdoor use)
35	Chlorobenzene	Not more than 1	_(12)	Not more than 2	Not more than 10
36	2-Methoxyethanol	Not more than 0.4	Not more than 7	Not more than 0.05	Not more than 0.3
37	Mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Prohibited	Not more than 0.02	Not more than 0.2
38	Acrylic acid	Not more than 0.02	Not more than 0.07	Not more than 0.02	_(12)
39	Chlorine dioxide <sup>(14)</sup>	Not more than 40	Not more than 140	Not more than 10	Not more than 2,000
40	Diazolidinyl urea	Not more than 35	_(12)	Not more than 25	_(12)
41	Bronopol	Not more than 1	_(12)	_(12)	_(12)
42	Glycerol	Not more than 40	_(12)	_(12)	_(12)
43	Ethylenediaminetetraacetic acid, tetrasodium salt	Not more than 0.7	_(12)	_(12)	_(12)
44	Salicylic acid	Not more than 35	_(12)	_(12)	_(12)
45	Citric acid	Not more than 3	_(12)	_(12)(15)	_(12)
46	Methylparaben	Not more than 10	_(12)	Not more than 15	_(12)
47	Hexadecyltrimethylammonium chloride	Not more than 4	_(12)	Not more than 1	_(12)
48	Sodium hydrogen carbonate	Not more than 40	_(12)	_(12)(15)	_(12)
49	Diethylene glycol mono-N-butyl ether	Not more than 40	_(12)	Not more than 20	_(12)
50	Borax	Not more than 15	_(12)	_(12)	_(12)
51	Zeolite	Not more than 0.2	_(12)	_(12)	_(12)

Serial No.	Substance name	Aerosol		Non-aerosol	
		General use <sup>(11)</sup>	Automobile (outdoor use)	General use <sup>(11)</sup>	Automobile (outdoor use)
52	N <sup>1</sup> -(3-Aminopropyl)-N <sup>1</sup> -do decyl-1,3-propanediamine	Not more than 1	Not more than 30	Not more than 0.3	Not more than 15
53	Sodium dichloroisocyanurate (NaDCC)	Prohibited	Prohibited	_(12)	_(12)
54	Diocetyl dimethylammonium chloride	Not more than 0.01	Not more than 4	Not more than 0.04	Not more than 2
55	Silicon dioxide	Not more than 0.3	_(12)	_(12)	_(12)
56	Sodium nitrite	Not more than 25	_(12)	Not more than 8	_(12)
57	Phosphoric acid	Not more than 4	_(12)	_(12)	_(12)
58	Copper and its compounds	As copper, not more than 0.2	As copper, not more than 23	_(12)	_(12)
59	Silver and its compounds	As silver, not more than 0.03	As silver, not more than 5	_(12)	_(12)
60	2,2-Dibromo-3-nitrilopropionamide	Not more than 5	Not more than 45	Not more than 8	_(12)
61	Titanium dioxide	Not more than 2	_(12)	_(12)	_(12)
62	Dipropylene glycol n-butyl ether	Not more than 10	_(12)	Not more than 4	_(12)
63	3-Methoxy-3-methyl-1-butanol	Not more than 4	Not more than 9	Not more than 2	_(12)
64	Zinc oxide	Not more than 0.4	_(12)	Not more than 3	_(12)

Note (11) Referring to all products other than those only for the exterior of an automobile for outdoor use

(12) No content limit

(13) Total amount of benzalkonium chlorides (C12–C18, alkylbenzyl dimethylammonium chlorides)

(14) Limited to liquid products, and the unit is mg/L

(15) Limited to tissue-type products, applied at 15% or less

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products. Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Sodium benzoate, hypochlorous acid, linalool, geraniol, sodium carbonate, 2-phenoxyethanol, propyl alcohol, Calcium hydroxide, 1,3-propanediol, calcium carbonate, calcium oxide, 1,2-pentanediol, dimethyloldimethyl hydantoin, and sodium thiosulfate

## Chapter 2 Removers

### 1. Scope of application

Remover means a chemical product to remove stains and foreign substances from the surface of an object with a chemical substance in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1:

**<Table 1> Purposes of Removers**

General use <sup>(1)</sup>	Removal of stains, stains from fabrics <sup>(2)</sup> , silicones, adhesives, tar and oil, blood, paint, and others <sup>(3)</sup>
Automobile	Indoor and outdoor use <sup>(3)</sup>

Note (1) Removers for sporting goods (such as golf equipment, bowling equipment, and table tennis equipment) shall be classified as cleaning and polishing agents for sporting goods

(2) Limited to stain removers for fabrics that are not accompanied by washing with water or the like

(3) The detailed purposes shall also be stated.

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Applied product and formulation type	Detection limit
1	Tetrachloroethylene	All products (all formulation types)	Not more than 5
2	Trichloroethylene	All products (all formulation types)	Not more than 5
3	Vinyl chloride	All products (all formulation types)	Not more than 5
4	Dichloromethane	All products (all formulation types)	_(4)
5	Lead and its compounds	All products (all formulation types)	As lead, not more than 1
6	Arsenic and its compounds	All products (all formulation types)	As arsenic, not more than 5
7	Ethyl bromide	All products (all formulation types)	_(4)
8	Nonylphenols	All products (all formulation types)	_(4)
9	Benzene	For removing stains from fabrics (all formulation types)	Not more than 5
10	Microplastics <sup>(5)</sup>	All products (all formulation types)	_(4)

Note (4) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(5) Solid plastic particles not more than 5 mm that do not dissolve in water and are used intentionally for cleaning, polishing, and peeling purposes

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use <sup>(6)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use	Outdoor use
1	Formaldehyde	Not more than 60 <sup>(7)</sup>	Not more than 60 <sup>(7)</sup>	Not more than 60 <sup>(7)</sup>	Not more than 170 <sup>(7)</sup>
2	Benzene <sup>(8)</sup>	Not more than 30	Not more than 30	Not more than 30	Not more than 90
3	Sodium hydroxide or potassium hydroxide <sup>(9)</sup>	As NaOH, less than 5%	As NaOH, less than 5%	As NaOH, less than 5%	As NaOH, less than 5%
4	Methylpyrrolidone	Not more than 1,000	Not more than 1,000	Not more than 1,000	Not more than 1,000
5	1,3-Butadiene	Not more than 1,000	Not more than 1,000	Not more than 1,000	_(10)

Note (6) Referring to all products other than those only for automobiles

(7) Limited to adhesive removers, applied at not more than 1,000 mg/kg

(8) Applicable to all products except for stain removers for fabrics

(9) Applying to removers containing sodium hydroxide or potassium hydroxide, and the standards are such products' maximum permissible base content.

(10) No content limit

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	Propylene glycol	_(11)	Not more than 65
2	Formic acid	Not more than 20	Not more than 8
3	Naphthalene	Not more than 0.2	Not more than 0.1
4	Benzyl alcohol	Not more than 65	Not more than 20
5	Ethylene glycol	_(11)	Not more than 30
6	Glutaraldehyde	Not more than 0.03	Not more than 0.01
7	Monoethanolamine	Not more than 1	Not more than 0.2
8	Xylene (mixture of o-,m-,p-isomers)	Not more than 40	Not more than 15
9	Triclosan	Not more than 15	Not more than 20
10	Didecyldimethylammonium chloride	Not more than 5	Not more than 9
11	Silver and its compounds	Not more than 70	_(11)
12	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 2	_(11)
13	Benzalkonium chlorides <sup>(12)</sup>	Prohibited	Not more than 45
14	Dipropylene glycol methyl ether	_(11)	Not more than 75
15	2-Butoxyethanol (butyl cellosolve)	Not more than 55	Not more than 20
16	3-Iodine-2-propyl butyl carbamate (IPBC)	Not more than 65	_(11)
17	2,6-Di-tert-butyl-p-cresol	Not more than 15	Not more than 20
18	Triethanolamine	Not more than 55	_(11)
19	Hydrogen peroxide	Not more than 2	Not more than 1

Serial No.	Substance name	Aerosol	Non-aerosol
20	Morpholine	Not more than 15	Not more than 5
21	Glyoxal	Not more than 0.03	Not more than 0.01
22	Ethylene oxide	Not more than 7	Not more than 2
23	Benzoic acid	_(11)	Not more than 50
24	Sodium 2-pyridinethiol 1-oxide	Not more than 75	_(11)
25	Chlorobenzene	Not more than 40	Not more than 15
26	2-Methoxyethanol	Not more than 1	Not more than 0.3
27	Mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Not more than 0.2
28	Hydrochloric acid or sulfuric acid <sup>(13)</sup>	As HCl, not more than 1	As HCl, not more than 0.4
29	Geraniol	Not more than 6	Not more than 6
30	Diethylene glycol mono-N-butyl ether	_(11)	Not more than 45
31	3-Methoxy-3-methyl-1-butanol	Not more than 1	Not more than 1
32	Hexadecyltrimethylammonium chloride	Not more than 3	Not more than 3
33	Benzyl benzoate	Not more than 30	Not more than 30
34	N <sup>1</sup> -(3-Aminopropyl)-N <sup>1</sup> -dodecyl-1,3-propanediamine	Not more than 0.6	Not more than 0.6
35	Sodium nitrite	Not more than 15	Not more than 15
36	Dipropylene glycol n-butyl ether	Not more than 7	Not more than 7

Note (11) No content limit

(12) Total amount of benzalkonium chlorides (C12–C18, alkylbenzyltrimethylammonium chlorides)

(13) Referring to a product's maximum permissible acid content

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products. Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Linalool, 2-phenoxyethanol, propyl alcohol, 1,2-Benzisothiazol-3(2H)-one (BIT), methanol, glycerol, ethylenediaminetetraacetic acid tetrasodium salt, ethanol, bronopol, sodium carbonate, borax, calcium oxide, phosphoric acid, calcium carbonate, 1,3-propanediol, dimethyloldimethyl hydantoin, titanium dioxide, zeolite, diazolidinyl urea, calcium hydroxide, and 1,2-pentanediol.

## Part 2 Laundry products group

### Chapter 1 Laundry detergents

#### 1. Scope of application

Laundry detergent means a chemical product to wash clothes, fibers, shoes, etc. in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That laundry soap bars (Powder laundry soap, recycled solid laundry soap, recycled powder laundry soap, etc). controlled pursuant to the Industrial Standardization Act shall not be included.

**<Table 1> Purposes of Laundry Detergents**

Fibers, leathers, at-home dry cleaning, shoes, and the removal of stains from fibers <sup>(1)</sup>
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Note (1) Products for removing stains from fabrics without washing with water or the like shall be classified as removers

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That where permissible detection limit is prescribed for a substance, such substance may be deemed acceptable only when it is unintentionally contained and it is technically impossible to completely remove it, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Tetrachloroethylene	All formulation	Not more

Serial No.	Substance name	Formulation type	Detection limit
		types	than 5
3	Arsenic and its compounds	All formulation types	As arsenic, not more than 5
4	Vinyl chloride	All formulation types	Not more than 5
5	Ethyl bromide	All formulation types	_(2)
6	Microplastics <sup>(3)</sup>	All formulation types	_(2)

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(3) Solid plastic particles not more than 5 mm that do not dissolve in water and are used intentionally for cleaning, polishing, and peeling purposes

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

Substance name	All formulation types
Phosphate phosphorus	Not more than 10,000

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	Musk ketone	Not more than 6
2	1,2-Dichloroethane	Not more than 60
3	Monoethanolamine	Not more than 40
4	Triclosan	Not more than 10
5	Diocetyl dimethyl ammonium chloride	Not more than 12
6	Silver and its compounds	As silver, not more than 80
7	Hydrogen peroxide	Not more than 25
8	Tetraacetylenediamine	Not more than 45
9	Sodium pyrithione	Not more than 8
10	Dipropylene glycol n-butyl ether	Not more than 40
11	Formic acid	Not more than 25
12	2,6-Di-tert-butyl-p-cresol	Not more than 15
13	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 7
14	N <sup>1</sup> -(3-aminopropyl)-N <sup>1</sup> -dodecyl-1,3-propa nediamine	Not more than 6
15	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 3
16	Glutaraldehyde	Not more than 0.6
17	Zinc oxide	Not more than 0.3
18	Didecyldimethylammonium chloride	Not more than 9

#### 4. Biodegradability

Laundry detergents containing synthetic surfactants shall comply with one of the specifications presented in Table 5.

**<Table 5> Biodegradation by Specification**

(Unit: %(w/w))

Category	KS I ISO 9439	KS I ISO 7827
Biodegradation	Not less than 60	Not less than 70

#### 5. Preservative substances Permitted for Use in products

The following substances may be used as active substances to

store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (which shall comply with the content limits when used)
- 2) Sodium benzoate, ethanol, benzyl alcohol, 3-methoxy-3-methyl-1-butanol, 4'-hydroxyacetophenone, geraniol, 3-iodo-2-propynyl butylcarbamate (IPBC), methylparaben, linalool, citric acid, ammonium sulfate, sodium thiosulfate, silicon dioxide, propyl alcohol, salicylic acid, 1,2-hexanediol, 2-propanol, methanol, benzoic acid, dimethylol dimethyl hydantoin, ethylenediaminetetraacetic acid tetrasodium salt, propylene glycol, glycerol, 1,2-pentanediol, bronopol, calcium carbonate, dipropylene glycol methyl ether, chlorhexidine digluconate, sodium bicarbonate, titanium dioxide, zeolite, sodium hydroxide, calcium oxide, borax, 2-phenoxyethanol, benzyl benzoate, diethylene glycol mono-n-butyl ether, ethylene glycol, sodium carbonate
- 3) Diethylene glycol phenyl ether (limited to non-spray types)

## Chapter 2 Bleaching agents

### 1. Scope of application

Bleaching agent means a chemical product to remove stains from, or whiten or brighten clothes, etc. in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1.

**<Table 1> Purposes of Bleaching Agents**

Fibers, leathers and shoesL
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Arsenic and its compounds	All formulation types	As arsenic, not more than 5
3	Vinyl chloride	All formulation types	Not more than 5
4	Ethyl bromide	All formulation types	_( <sup>1</sup> )
5	Microplastics <sup>(2)</sup>	All formulation types	_( <sup>1</sup> )

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(2) Solid plastic particles not more than 5 mm that do not dissolve in water and are used intentionally for cleaning, polishing, and peeling purposes

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name/hydrogen ion concentration (pH)	All formulation types
1	Sodium hydroxide or potassium hydroxide <sup>(3)</sup>	As NaOH, not more than 50,000
2	Phosphate phosphorus	Not more than 10,000
3	Hydrogen peroxide <sup>(4)</sup>	Not more than 15%

Note (3) Applying to bleaches that contain sodium hydroxide or potassium hydroxide, and the standards are such products' maximum permissible base content.

(4) Applying to bleaches that contain hydrogen peroxide

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product, including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	Phosphoric acid	Not more than 25
2	Titanium dioxide	Not more than 1
3	2,6-Di-tert-butyl-p-cresol	Not more than 40
4	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 15

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (which shall comply with the content limits when used)
- 2) 3-methoxy-3-methyl-1-butanol, glycerol, propylene glycol, ethylenediaminetetraacetic acid tetrasodium salt, ethanol, 2-propanol, salicylic acid, citric acid, linalool, benzyl alcohol, diethylene glycol mono-n-butyl ether, benzyl benzoate, 2-phenoxyethanol, sodium bicarbonate, calcium carbonate, zeolite, sodium dichloroisocyanurate, 1,2-hexanediol, silver, silicon dioxide, dipropylene glycol n-butyl ether, dipropylene glycol methyl ether, sodium carbonate
- 3) Diethylene glycol phenyl ether, “alcohols, C12-14, ethoxylated”, Sodium dichloroisocyanurate(NaDCC) (limited to

non-aerosol types),

## Chapter 3 Fabric softeners

### 1. Scope of application

Fabric softener means a chemical product to soften fibers or prevent static electricity during the washing or drying process in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1.

**<Table 1> Purposes of Fabric Softeners**

Fibers, leathers, and shoes
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Tetrachloroethylene	All formulation types	Not more than 5
2	Benzene	All formulation types	Not more than 5
3	Cadmium and its compounds	All formulation types	As cadmium, not more than 1
4	Mercury and its compounds	All formulation types	As mercury, not more than 1

Serial No.	Substance name	Formulation type	Detection limit
5	Arsenic and its compounds	All formulation types	As arsenic, not more than 5
6	Alkylphenol ethoxylates(APEOs) and alkylphenols	All formulation types	_(1)
7	Dialkyl (C12-C18) dimethyl ammonium chloride compounds	All formulation types	_(1)
8	Vinyl chloride	All formulation types	Not more than 5
9	Ethyl bromide	All formulation types	_(1)
10	Diethanolamine	All formulation types	_(1)
11	Optical brightener	All formulation types	_(1)
12	Microplastics <sup>(2)</sup>	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(2) Solid plastic particles not more than 5 mm that do not dissolve in water and are used intentionally for cleaning, polishing, and peeling purposes

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Formaldehyde	Not more than 75
2	Glutaraldehyde	Not more than 1,000
3	Parabens <sup>(3)</sup>	Not more than 4,000 for substances, not more than 8,000 for mixtures
4	2-Phenoxyethanol	Not more than 10,000
5	Triclosan	Not more than 1,000
6	Methylisothiazolinone(MIT) <sup>(4)</sup>	Not more than 100
7	5-Chloromethylisothiazolinone (CMIT) <sup>(4)</sup>	Not more than 15
8	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 500
9	Benzoic acid	Not more than 5,000
10	Benzyl alcohol	Not more than 10,000
11	Lead and its compounds	As lead, not more than 20
12	Limonene <sup>(5)</sup>	Not more than 10,000
13	1,4-Dioxane	Not more than 100
14	Propionaldehyde	Not more than 3,000

Note (3) Parabens: methyl paraben, butyl paraben, ethyl paraben, isobutyl paraben, propyl paraben, and isopropyl paraben

(4) Applying to non-aerosol fabric softeners, except for aerosol types

(5) Including D-limonene and L-limonene

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	Formic acid	Not more than 10
2	Monoethanolamine	Not more than 10
3	Silver and its compounds	As silver, not more than 9
4	Hydrochloric acid or sulfuric acid <sup>(6)</sup>	As HCl, not more than 0.4 (as concentrated HCl, not more than 1.2)
5	Hydrogen peroxide	Not more than 4
6	3-Iodo-2-propynyl butylcarbamate (IPBC)	Not more than 40
7	Dipropylene glycol n-butyl ether	Not more than 20
8	Hexadecyltrimethylammonium chloride	Not more than 7
9	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 1
10	Didecyl dimethyl ammonium chloride	Not more than 4

Note (6) Referring to a product's maximum permissible acid content

#### 4. Biodegradation

Where a product contains a surfactant, it shall comply with one of the standards specified in Table 5: Provided, That sheet-type products used exclusively for dryers shall be excluded.

**<Table 5> Biodegradation by Specification**

(Unit: %(w/w))

Category	KS I ISO 9439	KS I ISO 7827
Biodegradation	Not less than 60	Not less than 70

## 5. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (which shall comply with the content limits when used)
- 2) Ethanol, geraniol, benzyl benzoate, 3-Methoxy-3-methyl-1-butanol, 2,6-di-tert-butyl-p-cresol, citric acid, sodium bicarbonate, linalool, bronopol, glycerol, propylene glycol, "ethylenediaminetetraacetic acid, tetrasodium salt", methanol, 2-propanol, propyl alcohol, ethylene glycol, diethylene glycol mono-n-butyl ether, sodium hydroxide, 1,2-pentanediol, dimethylol dimethyl hydantoin, 1,2-hexanediol, silicon dioxide, sodium thiosulfate, titanium dioxide, dipropylene glycol methyl ether, ammonium sulfate, sodium carbonate
- 3) Diethylene glycol phenyl ether, 2,6-dimethyl-1,3-dioxan-4-yl acetate (dimethoxane) (limited to non-spray types)

## Part 3 Coating products group

### Chapter 1 Gloss coatings

#### 1. Scope of application

Gloss coating means a chemical product applied to the surface of an object to produce gloss effects on objects used in daily living spaces such as homes, offices, public-use facilities and vehicles, for purposes listed in Table 1.

**<Table 1> Purposes of Ceramic Coatings**

General use <sup>(1)</sup>	Rubbers, woods, plastics, leathers, metals, stones (cements), and metal accessories
Automobile	Indoor and outdoor use

Note (1) Gloss coatings for sporting goods (golf equipment, bowling equipment, and table tennis equipment) shall be subject to cleaners/brighteners for sporting goods

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Applicable product and formulation type	Detection limit
1	Vinyl chloride	All products (all formulation types)	Not more than 5
2	Triphenyltin compounds (TPT)	All products (all formulation types)	_(2)

Serial No.	Substance name	Applicable product and formulation type	Detection limit
3	Tributyltin compounds (TBT)	All products (all formulation types)	_(2)
4	Trichloroethylene	All products (all formulation types)	Not more than 5
5	Tetrachloroethylene	All products (all formulation types)	Not more than 5
6	Dimethylformamide	All products (all formulation types)	_(2)
7	1,3-Butadiene	For general use and for automobiles <sup>(3)</sup> (all formulation types)	Not more than 5

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(3) For indoor use only

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use <sup>(4)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use	Outdoor use
1	Formaldehyde	Not more than 70	Not more than 120	Not more than 20	Not more than 170
2	Acetaldehyde	Not more than 90	Not more than 150	Not more than 20	Not more than 300
3	Benzene	Not more than 20	Not more than 60	Not more than 10	Not more than 90

Serial No.	Substance name	General use <sup>(4)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use	Outdoor use
4	Naphthalene	Not more than 20	Not more than 100	Not more than 20	Not more than 200
5	Manganese and its compounds	As manganese, not more than 100	_(5)	_(5)	_(5)
6	Zirconium and its compounds	As zirconium, not more than 400	As zirconium, not more than 320	As zirconium, not more than 1,800	As zirconium, not more than 3,500
7	1,3-Butadiene	Prohibited	Prohibited	Prohibited	Not more than 40
8	Monoethanolamine	Not more than 5,000	Not more than 1,200	Not more than 2,000	Not more than 20,000
9	Bis(2-ethylhexyl) phthalate (DEHP)	Not more than 20	Not more than 10	Not more than 15	Not more than 30
10	Acrylic acid	Not more than 950	Not more than 120	Not more than 35	Not more than 1,400

Note (4) Referring to all products other than those only for automobiles

(5) No content limit

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name/hydrogen ion concentration (pH)	Aerosol		Non-aerosol	
		Indoor use <sup>(6)</sup>	Outdoor use	Indoor use <sup>(6)</sup>	Outdoor use
1	Ethanol	Not more than 30	_(8)	_(8)	_(8)

Serial No.	Substance name/hydrogen ion concentration (pH)	Aerosol		Non-aerosol	
		Indoor use <sup>(6)</sup>	Outdoor use	Indoor use <sup>(6)</sup>	Outdoor use
2	Benzyl benzoate	Not more than 20	Not more than 20	Not more than 20	Not more than 40
3	Propylene glycol	Not more than 8	_(8)	_(8)	_(8)
4	Phenylethanol	Not more than 50	Not more than 50	Not more than 50	_(8)
5	Dipropylene glycol methyl ether	Not more than 10	Not more than 55	Not more than 40	Not more than 60
6	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 1	_(8)	_(8)	_(8)
7	2,6-Di-tert-butyl-p-cresol	Not more than 2	Not more than 2	Not more than 2	Not more than 5
8	2-Propanol	Not more than 15	_(8)	Not more than 40	_(8)
9	Triethanolamine	Not more than 30	Not more than 65	Not more than 70	Not more than 60
10	Ethylene glycol	Not more than 4	Not more than 30	_(8)	_(8)
11	Benzyl alcohol	Not more than 3	Not more than 35	Not more than 80	Not more than 45
12	2-Butoxyethanol (butyl cellosolve)	Not more than 2.5	Not more than 23	Not more than 8	Not more than 15
13	3-Iodine-2-propyl butyl carbamate (IPBC)	Not more than 5	Not more than 10	Not more than 10	Not more than 20
14	Methanol	Not more than 10	_(8)	Not more than 60	_(8)
15	Xylene (mixture of o-,m-,p-isomers)	Not more than 2	Not more than 20	Not more than 5	Not more than 10
16	Formic acid	Not more than 1	Not more than 10	Not more than 1	Not more than 5
17	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 0.3	Not more than 0.3	Not more than 0.3	Not more than 0.6

Serial No.	Substance name/hydrogen ion concentration (pH)	Aerosol		Non-aerosol	
		Indoor use <sup>(6)</sup>	Outdoor use	Indoor use <sup>(6)</sup>	Outdoor use
18	Hydrochloric acid or sulfuric acid <sup>(7)</sup>	As HCl, not more than 0.05	As HCl not more than 1	As HCl not more than 0.1	As HCl. not more than 0.3
19	Silver and its compounds	As silver, not more than 1	_(8)	_(8)	_(8)
20	Morpholine	Not more than 1	Not more than 7	Not more than 1	Not more than 4
21	Propyl alcohol	Not more than 65	_(8)	Not more than 85	_(8)
22	Methyl salicylate	Not more than 20	_(8)	Not more than 30	Not more than 60
23	1-Hexadecanol	Not more than 25	_(8)	_(8)	_(8)
24	Silicon dioxide	Not more than 10	_(8)	_(8)	_(8)
25	Ethylene oxide	Not more than 0.3	Not more than 4	Not more than 15	Not more than 5
26	Copper and its compounds	As copper, not more than 6	_(8)	_(8)	_(8)
27	2-(2-Methoxyphenoxy)ethanol	Not more than 9	Not more than 50	Not more than 85	Not more than 60
28	1,4-Dichlorobenzene	Not more than 2	Not more than 20	Not more than 2	Not more than 10
29	Dichloromethane	Not more than 10	_(8)	Not more than 65	_(8)
30	Zinc pyrithione	Not more than 4	Not more than 5	Not more than 55	Not more than 50

Serial No.	Substance name/hydrogen ion concentration (pH)	Aerosol		Non-aerosol	
		Indoor use <sup>(6)</sup>	Outdoor use	Indoor use <sup>(6)</sup>	Outdoor use
31	Mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Prohibited	Not more than 0.1	Not more than 0.1
32	Benzalkonium chloride <sup>(9)</sup>	Prohibited	Prohibited	Not more than 5	Not more than 20
33	Didecyl dimethyl ammonium chloride	Not more than 0.07	Not more than 1.5	Not more than 3	Not more than 12
34	Citric acid <sup>(10)</sup>	Not more than 25	_(8)	Not more than 20	_(8)
35	Sodium pyrithione	Not more than 0.3	Not more than 12	Not more than 2	Not more than 20
36	Bronopol	Not more than 10	_(8)	_(8)	_(8)
37	Ethylenediaminetetraacetic acid, tetrasodium salt	Not more than 7	_(8)	_(8)	_(8)
38	Benzoic acid	Not more than 20	_(8)	_(8)	_(8)
39	Methylparaben	Not more than 15	Not more than 40	Not more than 6	_(8)
40	Hexadecyltrimethylammonium chloride	Not more than 4	Not more than 8	Not more than 2	Not more than 8
41	Diethylene glycol mono-n-butyl ether	_(8)	_(8)	Not more than 15	_(8)
42	Sodium bicarbonate	Not more than 35	_(8)	Not more than 20	_(8)
43	Sodium hydroxide	Not more than 25	_(8)	_(8)	_(8)

Serial No.	Substance name/hydrogen ion concentration (pH)	Aerosol		Non-aerosol	
		Indoor use <sup>(6)</sup>	Outdoor use	Indoor use <sup>(6)</sup>	Outdoor use
44	Zinc oxide	Not more than 3	Not more than 20	Not more than 5	Not more than 20
45	Zeolite	Not more than 1	Not more than 30	_(8)	_(8)
46	N <sup>1</sup> -(3-aminopropyl)-N <sup>1</sup> -dodecyl-1,3-propanediamine	Not more than 0.9	Not more than 2	Not more than 0.5	Not more than 2
47	Sodium nitrite	Not more than 20	Not more than 45	Not more than 10	Not more than 45
48	Phosphoric acid	Not more than 35	_(8)	_(8)	_(8)
49	Hydrogen peroxide	Not more than 1.5	Not more than 5	Not more than 0.3	Not more than 25
50	Chlorine dioxide <sup>(11)</sup>	Not more than 0.01	Not more than 0.03	Not more than 0.001	Not more than 0.1
51	Titanium dioxide	Not more than 20	_(8)	_(8)	_(8)
52	Dipropylene glycol n-butyl ether	Not more than 10	Not more than 20	Not more than 5	Not more than 20
53	3-Methoxy-3-methyl-1-butanol	Not more than 6	Not more than 20	Not more than 0.8	_(8)

Note (6) Referring to all products other than those only for outdoor use

(7) Referring to a product's maximum permissible acid content

(8) No content limit

(9) Total of benzalkonium chloride(C12–C18, alkylbenzyltrimethylammonium chlorides)

(10) Limited to uses other than for metal accessories

(11) Limited to liquid products, and the unit shall be mg/L

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and thereby to guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Linalool, geraniol, sodium carbonate, 2-phenoxyethanol, acetone, 1,3-dichloropropene, and calcium hydroxide, calcium oxide, glycerol, calcium carbonate, dimethylol dimethyl hydantoin, borax, 1,2-pentanediol, sulfur
- 3) Citric acid (limited to metal accessories)

**Chapter 2 Special purpose coatings**

**1. Scope of application**

Special purpose coating means a chemical product used for purposes listed in Table 1 and a special-function product to prevent contamination, static electricity, fogging, slipperiness, and water seepage in daily living spaces such as homes, offices, public-use facilities and vehicles: Provided, That any product, etc. falling under the following shall not be included:

- 1) Coatings used for an apparatus under subparagraph 4 of Article 2 of the Food Sanitation Act and containers and packages under subparagraph 5 of Article 2 of the same Act;
- 2) Repair products for construction, including waterproofing and water repellent products;
- 3) Coatings to prevent the corrosion and friction of an automobile’s internal parts.

**<Table 1> Purposes of Special Purpose Coatings**

General use <sup>(1)</sup>	Water repellent, waterproofing, contamination control, anti-static, anti-slip, surface protection, anti-frost purposes (for glasses, mirrors and lens), and leather softening purposes
Automobile	Indoor and outdoor use <sup>(2)</sup>

Note (1) Finishing agents for wood shall be subject to coating agents, and hardening agents for leather shall be subject to hardeners

(2) Windshield washer fluids for automobiles (for water repellent) are excluded.

## 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Product and formulation type	Detection limit
1	Vinyl chloride	All products (all formulation types)	Not more than 5
2	Trichloroethylene	All products (all formulation types)	Not more than 5
3	Tetrachloroethylene	All products (all formulation types)	Not more than 5
4	Triphenyltin compounds (TPT)	All products (all formulation types)	_(3)
5	Tributyltin compounds (TBT)	All products (all formulation types)	_(3)
6	Nickel and its compounds	All products (aerosols)	As nickel, not more than 1
7	Dimethylformamide	All products (all formulation types)	_(3)
8	Alkylphenol ethoxylates(APEOs) and alkylphenols	Anti-static (all formulation types)	_(3)
9	Dialkyl (C12-C18) dimethyl ammonium chloride compounds	Anti-static (all formulation types)	_(3)
10	Diethanolamine	Anti-static (all formulation types)	_(3)
11	Lead and its compounds	Anti-static (all formulation types)	As lead, not more than 1

Serial No.	Substance name	Product and formulation type	Detection limit
12	Cadmium and its compounds	Anti-static (all formulation types)	As cadmium, not more than 1
13	Mercury and its compounds	Anti-static (all formulation types)	As mercury, not more than 1
14	Arsenic and its compounds	Anti-static (all formulation types)	As arsenic, not more than 5
15	1,3-Butadiene	All products (all formulation types)	Not more than 5

Note (3) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use <sup>(4)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use <sup>(5)</sup>	Outdoor use
1	Formaldehyde	Not more than 70	Not more than 120	Not more than 20	Not more than 170
2	Acetaldehyde	Not more than 90	Not more than 150	Not more than 20	Not more than 300
3	Benzene	Not more than 30	Not more than 60	Not more than 10	Not more than 90
4	Bis(2-ethylhexyl) Phthalate (DEHP)	Not more than 500	Not more than 1,000	Not more than 500	Not more than 1,000

Serial No.	Substance name	General use <sup>(4)</sup>		Automobile	
		Aerosol	Non-aerosol	Indoor use <sup>(5)</sup>	Outdoor use
5	Glutaraldehyde <sup>(6)</sup>	Not more than 30	Not more than 150	_(7)	_(7)
6	1,4-Dioxane <sup>(6)</sup>	Not more than 20	Not more than 150	_(7)	_(7)
7	Naphthalene	Not more than 20	Not more than 100	Not more than 20	Not more than 200
8	Dibutyl phthalate	Not more than 600	Not more than 650	Not more than 2,200	Not more than 1,200

Note (4) Referring to all products other than those only for automobiles

(5) Water-repellent products are excluded.

(6) Limited to anti-static purposes

(7) No content limit

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol		Non-aerosol	
		Indoor use <sup>(8)</sup>	Outdoor use	Indoor use <sup>(8)</sup>	Outdoor use
1	Ethanol	Not more than 30	_(9)	_(9)	_(9)
2	Xylene (mixture of o-,m-,p-isomers)	Not more than 2	Not more than 20	Not more than 5	Not more than 10
3	Propylene glycol	Not more than 35	Not more than 35	_(9)	_(9)
4	Dipropylene glycol methyl ether	Not more than 45	Not more than 45	_(9)	_(9)

Serial No.	Substance name	Aerosol		Non-aerosol	
		Indoor use <sup>(8)</sup>	Outdoor use	Indoor use <sup>(8)</sup>	Outdoor use
5	2-Propanol	Not more than 75	Not more than 75	_ <sup>(9)</sup>	_ <sup>(9)</sup>
6	Triethanolamine	Not more than 35	Not more than 35	Not more than 70	Not more than 70
7	Ethylene glycol	Not more than 15	Not more than 15	_ <sup>(9)</sup>	_ <sup>(9)</sup>
8	Mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Prohibited	Not more than 0.7	Not more than 0.7
9	Didecyl dimethyl ammonium chloride	Not more than 0.2	Not more than 0.8	Not more than 1	Not more than 2
10	2-Phenoxyethanol	Not more than 15	Not more than 75	Not more than 30	Not more than 75
11	Citric acid	Not more than 10	_ <sup>(9)</sup>	Not more than 20	Not more than 40
		Not more than 55 <sup>(10)</sup>	_ <sup>(9)(10)</sup>	_ <sup>(9)(10)</sup>	_ <sup>(9)(10)</sup>
12	Silver and its compounds	As silver, not more than 2	As silver, not more than 15	_ <sup>(9)</sup>	_ <sup>(9)</sup>
13	Copper and its compounds	As copper, not more than 56	As copper, not more than 540	As copper, not more than 510	As copper, not more than 520
14	Formic acid	Not more than 4	_ <sup>(9)</sup>	Not more than 20	_ <sup>(9)</sup>
15	Phosphoric acid	Not more than 4	_ <sup>(9)</sup>	Not more than 7	Not more than 43
16	Silicon dioxide	Not more than 20	_ <sup>(9)</sup>	_ <sup>(9)</sup>	_ <sup>(9)</sup>

Serial No.	Substance name	Aerosol		Non-aerosol	
		Indoor use <sup>(8)</sup>	Outdoor use	Indoor use <sup>(8)</sup>	Outdoor use
17	Zinc oxide	Not more than 3	Not more than 20	Not more than 5	Not more than 10
18	Titanium dioxide	Not more than 0.4	Not more than 15	Not more than 2	Not more than 5
19	Methylparaben	Not more than 10	_(9)	Not more than 20	Not more than 40
20	Hexadecyltrimethylammonium chloride	Not more than 1	Not more than 8	Not more than 2	Not more than 4
21	Benzyl benzoate	Not more than 15	_(9)	Not more than 23	Not more than 46
22	2,6-Di-tert-butyl-p-cresol	Not more than 2	Not more than 10	Not more than 2	Not more than 5
23	N <sup>1</sup> -(3-aminopropyl)-N <sup>1</sup> -dodecyl-1,3-propanediamine	Not more than 0.6	Not more than 2	Not more than 0.6	Not more than 1
24	Sodium pyrithione	Not more than 7	_(9)	Not more than 15	Not more than 35
25	Sodium nitrite	Not more than 7	Not more than 45	Not more than 10	Not more than 25
26	Sulfuric acid	Not more than 1	Not more than 4	Not more than 6	Not more than 40
27	Hydrogen peroxide	Not more than 2	_(9)	Not more than 2	_(9)
28	Benzalkonium chloride <sup>(11)</sup>	Prohibited	Prohibited	Not more than 10	Not more than 15
29	Zinc pyrithione	Not more than 8	_(9)	Not more than 35	Not more than 35

Serial No.	Substance name	Aerosol		Non-aerosol	
		Indoor use <sup>(8)</sup>	Outdoor use	Indoor use <sup>(8)</sup>	Outdoor use
30	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 0.2	Not more than 1	Not more than 0.3	Not more than 0.7
31	Dipropylene glycol n-butyl ether	Not more than 3	Not more than 20	Not more than 5	Not more than 10
32	3-Iodo-2-propynyl butylcarbamate (IPBC)	Not more than 7	Not more than 45	Not more than 10	Not more than 25
33	3-Methoxy-3-methyl-1-butanol	Not more than 6	_(9)	Not more than 7	_(9)
34	Propiconazole	Not more than 1	Not more than 5	Not more than 2	Not more than 3

Note (8) Referring to all products other than those only for outdoor use

(9) No content limit

(10) Limited to leather softening purposes

(11) Total of benzalkonium chloride(C12–C18, alkylbenzyltrimethylammonium chlorides)

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and thereby to guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) 1,2-Benzisothiazol-3(2H)-one (BIT), borax, glycerol, sodium bicarbonate, calcium carbonate, bronopol, benzoic acid, benzyl alcohol, calcium oxide, sodium hydroxide, dimethylol dimethyl hydantoin, sulfur, propyl alcohol, and 1,3-propanediol.

## Chapter 3 Anti-rust additives

### 1. Scope of application

Anti-rust additive means a chemical product to prevent the corrosion of metals through the creation of a protective layer on the surface of an object, using a chemical substance in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Anti-rust additives for pipes and boilers;
- 2) Abrasives and anti-rust paints.

**<Table 1> Purposes of Anti-Rust Additives**

Vehicles <sup>(1)</sup> , instruments, leisure, tool sets, and metals
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Note (1) Referring to automobiles, motorcycles, bicycles, etc., except for construction machinery among those governed by the Road Traffic Act

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Vinyl chloride	All formulation types	Not more than 5
2	Tetrachloroethylene	All formulation types	Not more than 5

Serial No.	Substance name	Formulation type	Detection limit
3	Trichloroethylene	All formulation types	Not more than 5
4	Nickel and its compounds	All formulation types	_(2)
5	Dichloromethane	All formulation types	_(2)
6	1,2-Dichloroethane	All formulation types	_(2)

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Formaldehyde	Not more than 70
2	Acetaldehyde	Not more than 50
3	Benzene	Not more than 10
4	Bis(2-ethylhexyl) phthalate (DEHP)	Not more than 1,000
5	Naphthalene	Not more than 100

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	Dipropylene glycol methyl ether	-(4)	Not more than 7
2	2,6-Di-tert-butyl-p-cresol	Not more than 10	Not more than 5
3	2-Propanol	-(4)	Not more than 40
4	2-Butoxyethanol (butyl cellosolve)	-(4)	Not more than 25
5	Xylene (mixture of o-,m-,p-isomers)	-(4)	Not more than 3
6	Monoethanolamine	Not more than 4	Not more than 1
7	2-(2-Methoxyphenoxy)ethanol	-(4)	Not more than 6
8	Hydrochloric acid or sulfuric acid <sup>(3)</sup>	As HCl, not more than 5	As HCl, not more than 5
9	Benzalkonium chloride group <sup>(5)</sup>	Prohibited	Not more than 15
10	Zinc oxide	Not more than 40	Not more than 10
11	Ethanol	-(4)	Not more than 25
12	Zeolite	Not more than 25	-(4)
13	Geraniol	Not more than 37	Not more than 9
14	Sodium nitrite	-(4)	Not more than 25
15	A mixture of methylisothiazolinone (MIT) and 5-chloro-2-methylisothiazolinone (CMIT)	Prohibited	Not more than 0.6

Note (3) Referring to a product's maximum permissible acid content

(4) No content limit

(5) Total of benzalkonium chloride(C12–C18, alkylbenzyltrimethylammonium chlorides)

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and thereby to guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Linalool, triethanolamine, acetone, copper, glycerol, propylene glycol, calcium carbonate, ethylenediaminetetraacetic acid tetrasodium salt, methanol, benzyl alcohol, sodium hydroxide, phosphoric acid, titanium dioxide, and 3-methoxy-3-methyl-1-butanol.

## Chapter 4 Lubricants

### 1. Scope of application

Lubricant means a chemical product used for purposes listed in Table 1 to form an oil film on the surface of a solid material using chemical substances in order to minimize friction and prevent damage caused by friction in daily living spaces such as homes, offices, and public-use facilities: Provided, That any product falling under the following shall not be included.

- 1) Lubricating oils and greases under 「the Petroleum and Alternative Fuel Business Act」 ;
- 2) Household goods subject to safety verification(automobile brake fluids) under Article 15 of 「the Electrical Appliances and Consumer Products Safety Control Act」 ;
- 3) Lubricating oils for internal combustion engines(such as automobile engine oils) certified under Article 15 of 「the Industrial Standardization Act」 ;
- 4) Lubricants used in food utensils, containers, or packaging that may indirectly migrate into food(such as coffee machine lubricants);
- 5) Lubricants used for products that may cause harm to the human body due to contact with the human body or those used directly on the human body(such as electric shaver lubricants or personal lubricants).

**<Table 1> Purposes of Lubricants**

Vehicles <sup>(1)</sup> , instruments, leisure, tool sets, and metals
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Note (1) Referring to automobiles, motorcycles, bicycles, etc., except for construction machinery among those governed by the Road Traffic Act

## 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Polyvinyl chloride	All formulation types	Not more than 5
2	Tetrachloroethylene	All formulation types	Not more than 5
3	Trichloroethylene	All formulation types	Not more than 5
4	Dichloromethane	All formulation types	_(2)
5	1,2-Dichloroethane	All formulation types	_(2)

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

## 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Formaldehyde	Not more than 70
2	Acetaldehyde	Not more than 50
3	Benzene	Not more than 10
4	Bis(2-ethylhexyl) phthalate (DEHP)	Not more than 800
5	Naphthalene	Not more than 100
6	Nickel and its compounds	As nickel, not more than 100

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	Dipropylene glycol methyl ether	-(4)	Not more than 7
2	2,6-Di-tert-butyl-p-cresol	Not more than 10	Not more than 5
3	2-Propanol	-(4)	Not more than 40
4	2-Butoxyethanol (butyl cellosolve)	-(4)	Not more than 25
5	Xylene (o-, m-, p-isomers, total)	-(4)	Not more than 3
6	Monoethanolamine	Not more than 4	Not more than 1
7	2-(2-Methoxyethoxy) ethanol	-(4)	Not more than 6
8	Hydrochloric acid or sulfuric acid <sup>(3)</sup>	As HCl, less than 5	As HCl, less than 5
9	Benzalkonium chloride <sup>(5)</sup>	Prohibited	Not more than 15

Note (3) Referring to a product's maximum permissible acid content

(4) No content limit

(5) Total of benzalkonium chloride(C12–C18, alkylbenzyltrimethylammonium chlorides)

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (which shall comply with the content limits when used)
- 2) Linalool, triethanolamine, acetone, copper

## Chapter 5 Ironing auxiliaries

### 1. Scope of application

Ironing auxiliary means a chemical product to remove wrinkles in fibers, etc. in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1.

**<Table 1> Purposes of Ironing Auxiliaries**

Clothes and fibers
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Acetaldehyde	All formulation types	_(1)
2	Formaldehyde	All formulation types	_(1)
3	Glutaraldehyde	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	3-Iodine-2-propyl butyl carbamate (IPBC)	Not more than 10
2	2-Propanol	Not more than 60
3	Acetone	Not more than 20
4	Alpha-isomethyl ionone	Not more than 300
5	Butylphenyl methylpropional	Not more than 550
6	Musk ketone	Not more than 450

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	2-Phenoxyethanol	Not more than 1
2	Citric acid	Not more than 3
3	Glycerol	Not more than 45
4	Propylene glycol	Not more than 15
5	Ethylenediaminetetraacetic acid, tetrasodium salt	Not more than 10
6	Ethanol	Not more than 20
7	Benzoic acid	Not more than 20
8	Benzyl alcohol	Not more than 5
9	Benzyl benzoate	Not more than 4
10	Sodium bicarbonate	Not more than 10
11	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 0.1
12	Didecyl dimethyl ammonium chloride	Not more than 0.5
13	Titanium dioxide	Not more than 9
14	Dipropylene glycol methyl ether	Not more than 2

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (which shall comply with the content limits when used)
- 2) Sodium hydroxide

## Chapter 6 Finish agents

### 1. Scope of application

Finishing agent means a chemical product used for purposes listed in Table 1 to smooth and protect the surface of wooden goods in daily living spaces such as homes, offices, and public-use facilities: Provided, That paints under 「the Clean Air Conservation Act」 shall not be included.

**<Table 1> Purposes of Finish agents**

Woods
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### 2. Prohibited substances

- 1) Even if the substances listed in the following Table 2 are not used as raw materials in a product, such substances shall comply with the content limits prescribed for each substance.

**<Table 2> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol	Non-aerosol
1	Naphthalene	Not more than 10	Not more than 10
2	Benzene	Not more than 30	Not more than 20

- 2) Where the substances listed in the following Table 3 are used in the entire process of manufacturing a product, including the manufacture of its raw materials, such substances shall comply with the content limits prescribed for each substance.

**<Table 3> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

<b>Serial No.</b>	<b>Substance name</b>	<b>Aerosol</b>	<b>Non-aerosol</b>
1	A mixture of methylisothiazolinone (MIT) and 5-chloro-2-methylisothiazolinone (CMIT)	Prohibited	Not more than 0.05
2	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 0.3	Not more than 3
3	Permethrin	Not more than 10	Not more than 2
4	2-Octyl-3(2H)-isothiazolone (OIT)	_(1)	Not more than 1
5	Dipropylene glycol methyl ether	_(1)	Not more than 40

Note (1) No content limit

### 3. Preservative substances Permitted for Use in products

The following substances listed in Table 3 (which shall comply with the content limits when used) may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

## Chapter 7 Hardeners

### 1. Scope of application

Hardening agent means a chemical product used for purposes listed in Table 1 to harden leather goods such as shoes and bags in daily living spaces such as homes, offices, public-use facilities, and vehicles.

**<Table 1> Purposes of Hardeners**

Leathers
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Toluene diisocyanate	All formulation types	Not more than 5
2	Bis(2-ethylhexyl) phthalate (DEHP)	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

<b>Serial No.</b>	<b>Substance name</b>	<b>Aerosol</b>	<b>Non-aerosol</b>
1	Acrylic acid	Not more than 250	Not more than 250

## Part 4 Adhesives product group

### Chapter 1 Adhesives

#### 1. Scope of application

Adhesive means a chemical product to make the surfaces of objects adhere to one another in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Adhesives used for construction or by professional contractors, or for construction materials;
- 2) Adhesives whose main raw materials are inorganic materials including cements and silicate salts;
- 3) Glues for stationery or papering purposes and adhesive tapes;
- 4) Adhesives whose main raw materials are metals including solder and silver solder;
- 5) Adhesives for beauty or makeup purposes (such as wigs, body hairs, false eyelashes, double eyelids, fake nails, etc.).

**<Table 1> Purposes of Adhesives**

General use	rubbers, woods, plastics, leathers, fibers, metals, porcelains (ceramic, tile), glasses, paper, clays, stones structure (gypsum), and films
instant and super-glue adhesives	

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically

impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type and product	Detection limit
1	Triphenyl Tin (TPT)	All formulation types	_(1)
2	Tributyl tin compounds (TBT)	All formulation types	_(1)
3	Organic mercury compounds	All formulation types	_(1)
4	Vinyl chloride	All formulation types (excluding PVC adhesives)	_(1)
5	Toluene diisocyanate	All formulation types	_(1)
6	Acrylonitrile	All formulation types (excluding cyanoacrylate series)	_(1)
7	Tetrachloroethylene	All formulation types	Not more than 5
8	Trichloroethylene	All formulation types	Not more than 5
9	Arsenic and its compounds	Aerosol	As arsenic, not more than 5

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use		Instant and super-glue adhesives	
		Aerosol	Non-aerosol	Aerosol	Non-aerosol
1	Formaldehyde	Not more than 50	Not more than 100	Not more than 50 <sup>(2)</sup>	Not more than 100 <sup>(2)</sup>
2	Acetaldehyde	Not more than 350	Not more than 1,000	Not more than 350	_(5)
3	Chloroform	Not more than 120	Not more than 1,000	Not more than 120	Not more than 1,000
4	Toluene	Not more than 1,000	Not more than 1,000	Not more than 1,000	Not more than 1,000
5	Dimethylformamide	Not more than 300	Not more than 1,000	Not more than 300	_(5)
6	Dichloromethane	Not more than 200	Not more than 800	Not more than 200	Not more than 800
7	Arsenic and its compounds	_(5)	As arsenic not more than 20	_(5)	As arsenic not more than 20
8	Benzene	Not more than 20	Not more than 60	Not more than 20	Not more than 60
9	Xylene (mixture of o-,m-,p-isomers)	Not more than 1,000	Not more than 1,000	Not more than 1,000	_(5)
10	Hydroquinone <sup>(3)</sup>	_(5)	_(5)	_(5)	Not more than 1,000
11	Acrylonitrile <sup>(3)</sup>	_(5)	_(5)	Not more than 200	Not more than 200
12	Vinyl chloride <sup>(4)</sup>	Not more than 200	Not more than 200	_(5)	_(5)
13	1,4-dioxane	Not more than 10	Not more than 10	Not more than 3,400	Not more than 4,000
14	Epichlorohydrin	Not more than 150	Not more than 150	_(5)	_(5)

Note (2) Applying less than 1% to instant and super-glue adhesives whose active ingredients are cyanoacrylate series substances

(3) Applying to instant and super-glue adhesives whose active ingredients are yanoacrylate series substances

(4) Applying to adhesives whose active ingredient is PVC (polyvinyl chloride) polymer or to adhesives for PVC

(5) No content limit

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	2,6-Di-tert-butyl-p-cresol	Not more than 20	Not more than 50
2	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 3	Not more than 7
3	Ethylene oxide	Not more than 50	_(6)
4	benzalkonium chloride <sup>(7)</sup>	Prohibited	_(6)
5	Phosphoric acid	Not more than 17	Not more than 17
6	Geraniol	_(6)	Not more than 15
7	A mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Not more than 0.1
8	2,2-dibromo-3-nitrilopropionamide	_(6)	Not more than 20

Note (6) No content limit

(7) Total of benzalkonium chloride(C12–C18, alkylbenzyltrimethylammonium chlorides)

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

1) Substances listed in Table 4 (to use such substances, compliance

with the standards for content is required);

- 2) Ethanol, propylene glycol, dipropylene glycol methyl ether, 1, 2-benzisothiazol-3(2H)-one (BIT), sodium carbonate, 2-phenoxyethanol, ethylene glycol, benzyl alcohol, 2-butoxyethanol (butyl cellosolve), 3-Iodine-2-propynyl butylcarbamate (IPBC), methanol, xylene (mixture of o-, m-, p-isomers), benzalkonium chloride [including Alkyl(c=12-18)benzyl dimethyl ammonium chloride, benzyl-C12-C16-alkyl dimethyl ammonium chloride], acetone, silver, propyl alcohol, phenol, and t-butanol, Bronopol, zinc oxide, 2-methyl-1,2-benzisothiazolin-3-one, silicon dioxide, titanium dioxide, glycerol, sodium bicarbonate, borax, calcium oxide, carbendazim, calcium carbonate, 1,2-hexanediol, dimethyloldimethyl hydantoin, citric acid, copper, benzoic acid, 2-propanol, sodium hydroxide, diazolidinyl urea, sodium bromide

## Chapter 2 Gap and crack fillers

### 1. Scope of application

Gap and crack filler means a chemical product to fill any gap or crack in an object in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Adhesives used for construction under Article 2 (1) 8 of the Building Act;
- 2) Car body repair putty;
- 3) Tire sealants for automobiles that are injected using tire repair devices (repair kits, etc.) that can be injected without external leakage.

**<Table 1> Purposes of Gap and Crack Fillers**

Gap filling, seam welding, and crack filling
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Tetrachloroethylene	All formulation types	Not more than 5
3	Trichloroethylene	All formulation types	Not more than 5
4	Bis(2-ethylhexyl) phthalate (DEHP)	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Formaldehyde	Not more than 100
2	Acetaldehyde	Not more than 1,000
3	Naphthalene	Not more than 2,000
4	Aluminium and its compounds	As aluminium, not more than 3,000
5	Propylene glycol monomethyl ether acetat	Not more than 9,000
6	1-Dodecanol	Not more than 20,000
7	Cadmium and its compounds	As cadmium, not more than 400
8	Acrylic acid	Not more than 8,000

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	1,2,4-Trimethylbenzene <sup>(2)</sup>	Not more than 1.5
2	1,3,5-Trimethylbenzene <sup>(2)</sup>	Not more than 1
3	Lithium and its compounds <sup>(3)</sup>	As lithium, not more than 10
4	Copper and its compounds	As copper, not more than 2
5	2-octyl-3(2H)-isothiazolone (OIT)	Not more than 15
6	Propiconazole	Not more than 20
7	1,2-benzisothiazol-3(2H)-one (BIT)	Not more than 35
8	Glutaraldehyde	Not more than 0.0006
9	Ethanol	Not more than 14
10	Benzyl alcohol	Not more than 4
11	Ethylene glycol	Not more than 2
12	2-phenoxyethanol	Not more than 10
13	2-propanol	Not more than 7
14	Zeolite	Not more than 8
15	Titanium dioxide	Not more than 27
16	1,3-propanediol	Not more than 30
17	Ethylenediaminetetraacetic acid, disodium salt	Not more than 40
18	Benzoic acid	Not more than 10
19	Propyl alcohol	Not more than 5
20	2,6-di-tert-butyl-p-cresol	Not more than 6

<b>Serial No.</b>	<b>Substance name</b>	<b>All formulation types</b>
21	Methylisothiazolinone (MIT), 5-chloromethylisothiazolinone (CMIT) mixture <sup>(4)</sup>	Not more than 0.005
22	2,2-dibromo-3-nitrilopropionamide	Not more than 1
23	Carbendazim	Not more than 10
24	Zinc pyrithione	Not more than 3
25	Dipropylene glycol methyl ether	Not more than 2
26	3-iodo-2-propynyl butylcarbamate (IPBC)	Not more than 9

Note (2) Limited to non-aerosol type; for aerosol type, the content limit shall be not more than 20% (w/w).

(3) Limited to non-aerosol type

(4) Limited to to non-aerosol type; aerosol type shall not contain.

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Propylene glycol, sodium hydroxide, bronopol, 2-phenylphenol, calcium carbonate, glycerol, zinc oxide, sodium bicarbonate, borax(borax), dimethylol dimethyl hydantoin, diazolidinylurea, sulfur, sodium nitrite, silicon dioxide
- 3) Lithium (limited to aerosol-type products)

## Chapter 3 Hardening accelerators

### 1. Scope of application

Hardening accelerators mean chemical products used for purposes listed in Table 1 as admixtures to promote the hardening of adhesives in daily living spaces such as homes, offices, and public-use facilities.

**<Table 1> Purposes of Hardening accelerators**

Adhesives <sup>(1)</sup>
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Note (1) Limit to products used in adhesives that are consumer chemical products subject to safety verification.

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Nitromethane	All formulation types	_(2)

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol	Non-aerosol
1	Benzene	Not more than 25	Not more than 25

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	Titanium dioxide	Not more than 1	Not more than 12 <sup>(3)</sup>

Note (3) Applicable to powder-type products at 1% or less

### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Ethanol, 2-propanol

## Part 5 Air freshener product group

### Chapter 1 Air fresheners

#### 1. Scope of application

Air freshener means a chemical product to allow persons using daily living spaces such as homes, offices, vehicles, and public-use facilities to feel refreshed by emitting a good scent on a continuous basis, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Cosmetics under subparagraph 1 of Article 2 of the Cosmetics Act (such as perfume, incense powder, sachet, cologne, and body odor eliminator);
- 2) Drugs (aromatherapy, etc.) under subparagraph 4 of Article 2 of the Pharmaceutical Affairs Act;
- 3) Products that do not artificially add fragrance such as incenses for ancestral rites and dried flowers;
- 4) Products to be worn on the human body or to be attached to clothes, such as patch or necklace types.

**<Table 1> Purposes of Air Fresheners**

Automobile	Indoor use
General use	Indoor space, fibers and leathers

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Vinyl chloride	All formulation types	Not more than 5
3	Trichloroethylene	All formulation types	Not more than 5
4	Sodium tetraborate pentahydrate	All formulation types	_(1)
5	1,4-Dichlorobenzene	All formulation types	_(1)
6	Benzidine	All formulation types	Not more than 5
7	4,4'-Methylenebis(2-chloroaniline)	All formulation types	Not more than 5
8	Toluene diisocyanate	All formulation types	_(1)
9	Ethylene oxide	sustained-release type <sup>(2)</sup>	_(1)
10	Naphthalene	sustained-release type <sup>(2)</sup>	_(1)
11	Formaldehyde	sustained-release type <sup>(2)</sup>	_(1)
12	Acetaldehyde	sustained-release type <sup>(2)</sup>	_(1)
13	Glyoxal	sustained-release type <sup>(2)</sup>	_(1)
14	Chlorine dioxide	sustained-release type <sup>(2)</sup>	_(1)
15	Methanol	sustained-release type <sup>(2)</sup>	_(1)
16	4-Methoxybenzyl alcohol	sustained-release type <sup>(2)</sup>	_(1)
17	Acrylic acid	sustained-release type <sup>(2)</sup>	_(1)
18	Hydrochloric acid	sustained-release type <sup>(2)</sup>	_(1)
19	Sulfuric acid	sustained-release type <sup>(2)</sup>	_(1)
20	Phosphoric acid	sustained-release type <sup>(2)</sup>	_(1)
21	Calcium hydroxide	sustained-release type <sup>(2)</sup>	_(1)
22	Sodium hydroxide	sustained-release type <sup>(2)</sup>	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety).

(2) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour.

### 3. Restricted substances

1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol <sup>(3)</sup>	Non -aerosol	Sustained -release <sup>(4)</sup>
1	Formaldehyde	Not more than 12	Not more than 25	Prohibited
2	Methanol	Not more than 2,000	Not more than 2,000	Prohibited
3	Glyoxal	Not more than 30	Not more than 70	Prohibited
4	3-Iodine-2-propyl butyl carbamate (IPBC)	Not more than 8	_(5)	Not more than 8
5	Bis(2-ethylhexyl) phthalate (DEHP)	Not more than 1,600	_(5)	Not more than 340
6	Acetaldehyde	Not more than 60	Not more than 300	Prohibited
7	4-Methoxybenzyl alcohol	Not more than 100	_(5)	Prohibited
8	Acrylic acid	Not more than 600	Not more than 1,000	Prohibited
9	Trisodium ethylenediaminetetraacetate	Not more than 6,000	_(5)	Not more than 60

Note (3) Limited to all aerosol-type products other than sustained-release types.

(4) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour.

(5) No content limit.

2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol <sup>(6)</sup>		Non-aerosol		Sustained -release <sup>(7)</sup>
		General use	Automobile (indoor use)	General use	Automobile (indoor use)	
1	Propylene glycol	_(8)	Not more than 47	_(8)	_(8)	Not more than 2
2	Benzoic acid	Not more than 3	Not more than 1	_(8)	_(8)	Not more than 0.02
3	2-Propanol	Not more than 25	Not more than 12	_(8)	_(8)	Not more than 4
4	Salicylic acid	Not more than 88	Not more than 37	_(8)	_(8)	Not more than 0.6
5	Benzyl alcohol	Not more than 36	Not more than 17	_(8)	_(8)	Not more than 0.7
6	Ethylene glycol	Not more than 0.2	Not more than 0.2	_(8)	_(8)	Not more than 0.01
7	Methyl salicylate	Not more than 27	Not more than 13	_(8)	_(8)	Not more than 0.6
8	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 1.5	Not more than 0.7	_(8)	_(8)	Not more than 0.01
9	Triclosan	Not more than 26	Not more than 16	_(8)	_(8)	Not more than 0.3
10	Didecyldimethylammonium chloride	Not more than 0.01	Not more than 0.005	_(8)	_(8)	Not more than 0.0001

Serial No.	Substance name	Aerosol <sup>(6)</sup>		Non-aerosol		Sustained -release <sup>(7)</sup>
		General use	Automobile (indoor use)	General use	Automobile (indoor use)	
11	Silver and its compounds	As silver, not more than 0.04	As silver, not more than 0.02	_(8)	_(8)	As silver, not more than 0.0003
12	Pyrethrins	Not more than 1	Not more than 0.7	_(8)	_(8)	Not more than 0.002
13	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 0.4	Not more than 0.12	_(8)	_(8)	Not more than 0.002
14	Dipropylene glycol methyl ether	_(8)	Not more than 57	_(8)	_(8)	Not more than 2.5
15	Triethanolamine	Not more than 2	Not more than 1	_(8)	_(8)	Not more than 0.01
16	Alpha-pinene	Not more than 7	Not more than 3	Not more than 39	Not more than 30	Not more than 0.1
17	Diphenyl ether	Not more than 1	Not more than 0.6	Not more than 7	Not more than 6	Not more than 0.03
18	Vinyl acetate	Not more than 5	Not more than 2	Not more than 26	Not more than 20	Not more than 0.1
19	Tricyclodecanyl acetate	Not more than 6	Not more than 3	Not more than 35	Not more than 27	Not more than 0.5
20	Ethanol	_(8)	_(8)	_(8)	_(8)	Not more than 8
21	Benzyl benzoate	_(8)	_(8)	_(8)	_(8)	Not more than 4
22	Calcium carbonate	_(8)	Not more than 45	_(8)	_(8)	Not more than 0.4
23	1,3-Propanediol	_(8)	_(8)	_(8)	_(8)	Not more than 1

Serial No.	Substance name	Aerosol <sup>(6)</sup>		Non-aerosol		Sustained -release <sup>(7)</sup>
		General use	Automobile (indoor use)	General use	Automobile (indoor use)	
24	Diethylene glycol mono-n-butyl ether	Not more than 30	Not more than 20	_(8)		Not more than 0.2
25	2,6-Di-tert-butyl-p-cresol	Not more than 4	Not more than 15	_(8)	_(8)	Not more than 0.3
26	3-Methoxy-3-methyl-1-butanol	Not more than 10	Not more than 8	Not more than 20	Not more than 15	Not more than 0.1
27	Methylparaben	Not more than 30	_(8)	_(8)	_(8)	Not more than 1
28	Bronopol	Not more than 1	Not more than 1	Not more than 2	Not more than 1	Not more than 0.01
29	Calcium hydroxide	_(8)	Not more than 45	_(8)	_(8)	Prohibited
30	Calcium oxide	_(8)	Not more than 45	_(8)	Not more than 45	Not more than 0.4
31	Chlorine dioxide <sup>(10)</sup>	Not more than 0.02	Not more than 0.01	Not more than 0.03	Not more than 0.02	Prohibited
32	Citric acid	Not more than 4	Not more than 3	_(8)	_(8)	Not more than 0.03
33	Copper and its compounds	As copper, not more than 0.2	As copper, not more than 0.1	As copper, not more than 0.2	As copper, not more than 0.2	As copper, not more than 0.001
34	Geraniol	Not more than 10	Not more than 7	Not more than 20	Not more than 10	Not more than 0.07
35	Glycerol	_(8)	Not more than 35	_(8)	_(8)	Not more than 0.3

Serial No.	Substance name	Aerosol <sup>(6)</sup>		Non-aerosol		Sustained -release <sup>(7)</sup>
		General use	Automobile (indoor use)	General use	Automobile (indoor use)	
36	Hydrogen peroxide	Not more than 3	Not more than 2	Not more than 5	Not more than 3	Not more than 0.02
37	Hexadecyl trimethyl ammonium chloride	Not more than 3	Not more than 15	_(8)	_(8)	Not more than 1
38	Propyl alcohol	_(8)	_(8)	_(8)	_(8)	Not more than 3
39	Sodium bicarbonate	Not more than 30	_(8)	_(8)	_(8)	Not more than 15
40	Sodium hydroxide	Not more than 3	Not more than 2	Not more than 4	Not more than 2	Prohibited
41	Sulfuric acid	Not more than 0.01	Not more than 0.01	Not more than 0.02	Not more than 0.01	Prohibited
42	Titanium dioxide	Not more than 3	Not more than 2	Not more than 3	Not more than 2	Not more than 0.02
43	Zeolite	Not more than 0.2	Not more than 0.1	Not more than 0.2	Not more than 0.2	Not more than 0.001
44	Zinc oxide	Not more than 0.5	Not more than 0.3	Not more than 0.5	Not more than 0.5	Not more than 0.003
45	Zinc pyrithione	Not more than 0.2	Not more than 0.1	_(8)	_(8)	Not more than 0.001
46	Ethylenediaminete traacetic acid, tetrasodium salt	Not more than 0.9	Not more than 0.6	_(8)	_(8)	Not more than 0.006
47	2-Phenoxyethanol	_(8)	_(8)	_(8)	_(8)	Not more than 0.03

Serial No.	Substance name	Aerosol <sup>(6)</sup>		Non-aerosol		Sustained-release <sup>(7)</sup>
		General use	Automobile (indoor use)	General use	Automobile (indoor use)	
48	Silicon dioxide	Not more than 0.4	Not more than 0.3	_(8)	_(8)	Not more than 0.001

Note (6) Applicable to all aerosol-type products other than sustained-release types

(7) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour

(8) No content limit

(9) Limited to liquid products whose unit is mg/L

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Terpineol, acetone, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one, propane, 9-acetyl-8-cedrene, ethyl 2,3-epoxy-3-phenylbutyrate, a mixture of tetrahydro-2-isobutyl-4-methylpyran-4-ol isomers, and 3,7-dimethyl-3-octanol (limited to formulations other than sustained-release type)
- 3) 3,7-Dimethylnona-1,6-dien-3-ol, 1,2-hexanediol, and dimethyloldimethyl hydantoin

## Chapter 2 Deodorizing agents

### 1. Scope of application

Deodorizing agent means a chemical product to eliminate odor in daily living spaces such as homes, offices, vehicles, and public-use facilities or from products such as clothes, fibers and shoes, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Deodorizing agents that are directly used on or applied to humans or animals;
- 2) Deodorizing agents for products that are attached, inserted, or come into direct contact with the human body and are likely to cause harm to the human body (such as sanitary pads or underwear);

**<Table 1> Purposes of Deodorizing Agents**

Automobile	Indoor use
General use	Indoor space, objects and enclosed space <sup>(1)</sup>

Note (1) Applicable to all aerosol-type products other than sustained-release types

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Ethylene oxide	All formulation types	_(2)
2	Naphthalene	All formulation types	_(2)
3	Benzene	All formulation types	Not more than 5
4	Trichloroethylene	All formulation types	Not more than 5
5	Vinyl chloride	All formulation types	Not more than 5
6	Sodium tetraborate pentahydrate	All formulation types	_(2)
7	1,4-Dichlorobenzene	All formulation types	_(2)
8	Benzidine	sustained-release type <sup>(3)</sup>	_(2)
9	4,4'-Methylenebis(2-chloroaniline)	sustained-release type <sup>(3)</sup>	_(2)
10	Toluene diisocyanate	sustained-release type <sup>(3)</sup>	_(2)
11	Formaldehyde	sustained-release type <sup>(3)</sup>	_(2)
12	Acetaldehyde	sustained-release type <sup>(3)</sup>	_(2)
13	Glyoxal	sustained-release type <sup>(3)</sup>	_(2)
14	Chlorine dioxide	sustained-release type <sup>(3)</sup>	_(2)
15	Methanol	sustained-release type <sup>(3)</sup>	_(2)
16	4-Methoxybenzyl alcohol	sustained-release type <sup>(3)</sup>	_(2)
17	Acrylic acid	sustained-release type <sup>(3)</sup>	_(2)
18	Hydrochloric acid	sustained-release type <sup>(3)</sup>	_(2)
19	Sulfuric acid	sustained-release type <sup>(3)</sup>	_(2)
20	Phosphoric acid	sustained-release type <sup>(3)</sup>	_(2)
21	Calcium hydroxide	sustained-release type <sup>(3)</sup>	_(2)
22	Sodium hydroxide	sustained-release type <sup>(3)</sup>	_(2)

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety).

(3) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour.

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

SeNo.	Substance name	Aerosol <sup>(4)</sup>	Non-aerosol	Sustained-release <sup>(5)</sup>
1	Formaldehyde	Not more than 12	Not more than 25	Prohibited
2	Methanol	Not more than 2,000	Not more than 2,000	Prohibited
3	Acetaldehyde	Not more than 70	Not more than 300	Prohibited
4	Chlorine dioxide <sup>(6)</sup>	Not more than 2 <sup>(1)</sup>	Not more than 2	Prohibited
5	3-Iodine-2-propyl butyl carbamate (IPBC)	Not more than 8	_(7)	Not more than 8
6	Glyoxal	Not more than 30	Not more than 70	Prohibited
7	Bis(2-ethylhexyl) phthalate (DEHP)	Not more than 1,600	_(7)	Not more than 340

Note (4) Applicable to all aerosol-type products other than sustained-release types

(5) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour

(6) Limited to liquid products whose unit is mg/L

(7) No content limit

- 2) Where any substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall

comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
1	Propylene glycol	_(10)	_(10)	Not more than 46	_(10)	_(10)	Not more than 2
2	Benzoic acid	Not more than 3	Not more than 10	Not more than 1	_(10)	_(10)	Not more than 0.02
3	2-Propanol	Not more than 20	Not more than 24	Not more than 12	_(10)	_(10)	Not more than 4
4	Salicylic acid	Not more than 81	Not more than 19	Not more than 37	_(10)	_(10)	Not more than 0.6
5	Benzyl alcohol	Not more than 32	Not more than 34	Not more than 16	_(10)	_(10)	Not more than 0.7
6	Ethylene glycol	Not more than 0.2	Not more than 6	Not more than 0.2	_(10)	_(10)	Not more than 0.01
7	Methyl salicylate	Not more than 25	Not more than 26	Not more than 13	_(10)	_(10)	Not more than 0.6
8	Benzyl benzoate	Not more than 75	Not more than 27	Not more than 75	_(10)	_(10)	Not more than 4
9	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 1.3	Not more than 1	Not more than 0.68	_(10)	_(10)	Not more than 0.01
10	Triclosan	Not more than 8	Not more than 3	Not more than 16	_(10)	_(10)	Not more than 0.3

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
11	Didecyldimethyl ammonium chloride	Not more than 0.01	Not more than 0.18	Not more than 0.0015	_(10)	_(10)	Not more than 0.0001
12	Benzalkonium chloride <sup>(11)</sup>	Prohibited	Prohibited	Prohibited	_(10)	_(10)	Prohibited
13	Pyrethrins	Not more than 1	Not more than 1	Not more than 0.7	_(10)	_(10)	Not more than 0.0015
14	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 0.3	Not more than 0.4	Not more than 0.1	_(10)	_(10)	Not more than 0.002
15	Dipropylene glycol methyl ether	_(10)	_(10)	Not more than 56	_(10)	_(10)	Not more than 2.5
16	Triethanolamine	Not more than 2	Not more than 10	Not more than 1	_(10)	_(10)	Not more than 0.014
17	Ethylenediamine tetra Acetic acid, trisodium salt	Not more than 0.9	Not more than 6	Not more than 0.5	_(10)	_(10)	Not more than 0.006
18	Alpha-pinene	Not more than 6	Not more than 10	Not more than 4	Not more than 39	Not more than 30	Not more than 0.14
19	Morpholine	Not more than 7	Not more than 10	Not more than 4	Not more than 39	Not more than 31	Not more than 0.15
20	Triethylene glycol	Not more than 15	Not more than 23	Not more than 9	Not more than 92	Not more than 71	Not more than 0.3

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
21	Monoethanolamine	Not more than 0.3	Not more than 0.5	Not more than 0.2	Not more than 2	Not more than 1	Not more than 0.007
22	Tricyclo decenyl acetate	Not more than 6	Not more than 9	Not more than 4	Not more than 35	Not more than 27	Not more than 0.5
23	Hydrochloric acid	Not more than 0.5	Not more than 0.8	Prohibited	Not more than 3	Not more than 2	Prohibited
24	Silicon dioxide	Not more than 0.1	Not more than 1.0	Not more than 0.08	_(10)	_(10)	Not more than 0.001
25	Zinc oxide	Not more than 0.4	Not more than 3.2	Not more than 0.2	_(10)	_(10)	Not more than 0.003
26	Formic acid	Not more than 35	Not more than 30	Not more than 25	_(10)		Not more than 0.3
27	1,3-Propanediol	_(10)	_(10)	_(10)	_(10)	_(10)	Not more than 1
28	Silver and its compounds	As silver, not more than 0.03	As silver, not more than 0.03	As silver, not more than 0.02	_(10)	_(10)	As silver, not more than 0.0002
29	Diethylene glycol mono-n-butyl ether	Not more than 30	Not more than 25	Not more than 20	_(10)	Not more than 30	Not more than 0.2
30	2,6-Di-tert-butyl-p-cresol	Not more than 7	Not more than 4	Not more than 15	Not more than 10	_(10)	Not more than 0.25

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
31	3-Methoxy-3-methyl-1-butanol	Not more than 10	Not more than 10	Not more than 8	Not more than 30	Not more than 15	Not more than 0.1
32	Methylparaben	_(10)	Not more than 30	_(10)	_(10)	_(10)	Not more than 1
33	Bronopol	Not more than 1	Not more than 1	Not more than 1	Not more than 2	Not more than 1	Not more than 0.01
34	Calcium carbonate	_(10)	_(10)	Not more than 45	_(10)	_(10)	Not more than 0.4
35	Calcium hydroxide	_(10)	_(10)	Not more than 45	_(10)	_(10)	Prohibited
36	Calcium oxide	_(10)	_(10)	Not more than 45	_(10)	Not more than 45	Not more than 0.4
37	Citric acid	Not more than 4	Not more than 3	Not more than 3	_(10)	_(10)	Not more than 0.03
38	Copper and its compounds	As copper, not more than 0.2	As copper, not more than 0.2	As copper, not more than 0.1	As copper, not more than 0.2	As copper, not more than 0.2	As copper, not more than 0.001
39	Geraniol	Not more than 10	Not more than 9	Not more than 7	Not more than 20	Not more than 10	Not more than 0.07
40	Glutaraldehyde	Not more than 0.05	Not more than 0.04	Not more than 0.04	Not more than 0.09	Not more than 0.05	Not more than 0.0003

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
41	Glycerol	_(10)	Not more than 45	Not more than 35	_(10)	_(10)	Not more than 0.3
42	Hydrogen peroxide	Not more than 3	Not more than 3	Not more than 2	Not more than 5	Not more than 3	Not more than 0.02
43	Hexadecyltrimethylammonium chloride	Not more than 6	Not more than 3	Not more than 15	Not more than 10	_(10)	Not more than 1
44	Phosphoric acid	Not more than 5	Not more than 4	Not more than 3	_(10)	_(10)	Prohibited
45	Propyl alcohol	_(10)	_(10)	_(10)	_(10)	_(10)	Not more than 3
46	Sodium pyrrhione	Not more than 0.1	Not more than 0.1	Not more than 0.1	_(10)	_(10)	Not more than 0.006
47	Sodium carbonate	Not more than 7	Not more than 6	Not more than 5	_(10)	_(10)	Not more than 0.05
48	Sodium bicarbonate	_(10)	Not more than 30	_(10)	_(10)	_(10)	Not more than 15
49	Sodium hydroxide	Not more than 3	Not more than 3	Not more than 2	Not more than 4	Not more than 2	Prohibited
50	Sodium nitrite	_(10)	_(10)	_(10)	_(10)	_(10)	Not more than 0.7
51	Sulfuric acid	Not more than 0.01	Not more than 0.01	Not more than 0.01	Not more than 0.02	Not more than 0.01	Prohibited

Serial No.	Substance name	Aerosol <sup>(8)</sup>			Non-aerosol		Sustained-release <sup>(9)</sup>
		Indoor space	Object enclosed space	Automobile (indoor use)	General use	Automobile (indoor use)	
52	Titanium dioxide	Not more than 3	Not more than 3	Not more than 2	Not more than 3	Not more than 2	Not more than 0.02
53	Zeolite	Not more than 0.2	Not more than 0.2	Not more than 0.1	Not more than 0.2	Not more than 0.2	Not more than 0.001
54	2-Phenoxyethanol	_(10)	_(10)	_(10)	_(10)	_(10)	Not more than 0.03
55	Sodium dichloroisocyanurate (NaDCC)	Prohibited	Prohibited	Prohibited	Not more than 2	Not more than 0.9	Prohibited
56	Ethanol	_(10)	_(10)	_(10)	_(10)	_(10)	Not more than 8

Note (8) Applicable to all aerosol-type products other than sustained-release types

(9) Sustained-release type means a product used in indoor spaces with a dedicated device capable of continuous spraying, such as vaporization type, heating type, or diffusion type: Provided, That in the case of an automatic compressed-spraying type or a type that volatilizes by using a fan, this shall apply only to products with a cumulative spraying time of at least one minute per hour or a cumulative emission amount of at least 2 g per hour

(10) No content limit

(11) Total amount of benzalkonium chloride (C12–C18, alkylbenzyltrimethylammonium chloride)

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Terpeneol, acetone, 9-acetyl-8-cedrene, propene, sodium xylene sulfonate, 1,2-pentanediol, sulfur, chlorhexidine digluconate (limited to formulations excluding sustained-release types)
- 3) 3,7-dimethylnona-1,6-dien-3-ol, dimethylol dimethyl hydantoin, 1,2-hexanediol

## Part 6 Dye and colorant painting product group

### Chapter 1 Dye agents

#### 1. Scope of application

Dye agent means a chemical product to add colors to an object by releasing chemical substances into such object in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) Dyes and other dyes for the human body under subparagraphs 1 and 2 of Article 2 of the Cosmetics Act;
- 2) Paints prescribed in Annex 11 (stationery) of the Safety Standards of Children's Products Subject to Safety Verification, the Public Notice of the Ministry of Trade, Industry and Energy;
- 3) Painting, drawing and art supplies (including watercolor paints for painting).

**<Table 1> Purposes of Dye Agents**

Clothes, fibers, shoes, and leathers
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#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Vinyl chloride	All formulation types	Not more than 5
2	4,4'-Methylenebis(2-chloroaniline)	All formulation types	_(1)
3	Lead and its compounds	All formulation types	As lead, not more than 1
4	Cadmium and its compounds	All formulation types	As cadmium, not more than 1
5	Mercury and its compounds	All formulation types	As mercury, not more than 1
6	Arsenic and its compounds	All formulation types	As arsenic, not more than 5
7	Hexavalent chromium	All formulation types	_(1)
8	Trichloroethylene	All formulation types	Not more than 5
9	Tetrachloroethylene	All formulation types	Not more than 5
10	Certain aromatic amines derived from azo dyes	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety).

(2) Substances presented in the Regulations on Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Confirmation (Biphenyl-4-ylamine, Benzidine, 4-Chloro-o-toluidine, 2-Naphthylamine, o-Aminoazotoluene, 5-Nitro-o-toluidine, p-Chloroaniline, 2,4-Diaminoanisole, 4,4'-Methylenedianiline, 3,3'-Dichlorobenzidine, 3,3'-Dimethoxybenzidine, 3,3'-Dimethylbenzidine, 4,4'-Methylenedi-o-toluidine, p-Cresidine, 4,4'-Methylene-bis-(2-chloro-aniline), 4,4'-Oxydianiline, ,4'-Thiodianiline, o-Toluidine, Toluene-2,4-diamine, 2,4,5-Trimethylaniline, o-Anisidine, 4-Aminoazobenzene, 2,4-Xylidine, 2,6-Xylidine)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol	Non-aerosol
1	Benzene	Not more than 30	Not more than 40
2	1,4-Dioxane	Not more than 20	Not more than 20

- 2) Where any substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	2-Butoxyethanol (Butyl cellosolve)	Not more than 75	_(2)
2	Toluene	Not more than 25	Not more than 20
3	Xylene (mixture of o-,m-,p-isomers)	Not more than 55	Not more than 70
4	Formic acid	Not more than 30	Not more than 20
5	Mixture of methylisothiazolinone (MIT) and 5-chloromethylisothiazolinone (CMIT)	Prohibited	Not more than 3
6	2-Octyl-3(2H)-isothiazolone (OIT)	_(2)	Not more than 35

Note (2) No content limit

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Dipropylene glycol methyl ether, sodium carbonate, 1,2-benzisothiazol-3(2H)-one (BIT), sodium pyrithione, bronopol, glycerol, propylene glycol, ethylenediaminetetraacetate, disodium salt, ethanol, 2-propanol, 2-phenoxyethanol, sodium hydroxide, silicon dioxide, titanium dioxide, 3-iodo-2-propynyl butylcarbamate (IPBC), diethylene glycol mono-n-butyl ether, 4-chloro-m-cresol, copper, methanol, propyl alcohol, citric acid, linalool, benzyl alcohol, geraniol, ethylene glycol, hexadecyltrimethylammonium chloride, benzyl benzoate, sodium bicarbonate, calcium carbonate, sodium nitrite, diazolidinyl urea

## Chapter 2 Colorant painting agents

### 1. Scope of application

Colorant painting agent means a chemical product to color the surface of an object in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That any product, etc. falling under the following shall not be included:

- 1) The certification of exhaust gas from automobiles under the Clean Air Conservation Act;
- 2) Painting, drawing and art supplies (including watercolor paints for painting).

**<Table 1> Purposes and Formulation Types of Colorant Painting Agents**

Use		Formulation type
Automobile <sup>(1)</sup>	Indoor and outdoor use	General standards for formulation types
General use	Woods, plastics, metals, glasses, stones (cements), and leathers	Aerosols (spray type)

Note (1) Limited to a partial repair in an automobile

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

<b>Serial No.</b>	<b>Substance name</b>	<b>Formulation type</b>	<b>Detection limit</b>
1	Vinyl chloride	All formulation types	Not more than 5
2	4,4'-Methylenebis(2-chloroaniline)	All formulation types	_(2)
3	Lead and its compounds	All formulation types	As Lead, not more than 1
4	Cadmium and its compounds	All formulation types	As Cadmium, not more than 1
5	Mercury and its compounds	All formulation types	As Mercury, not more than 1
6	Arsenic and its compounds	All formulation types	As Arsenic, not more than 5
7	Hexavalent chromium	All formulation types	_(2)
8	Trichloroethylene	All formulation types	Not more than 5
9	Tetrachloroethylene	All formulation types	Not more than 5

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	General use <sup>(3)</sup>	Automobile	
		Aerosol	Indoor use	Outdoor use
1	Benzene	Not more than 30	Not more than 30	Not more than 40
2	1,4-Dioxane	Not more than 30	Not more than 30	Not more than 800
3	Copper and its compound	As Copper, not more than 2,000	As Copper, not more than 2,000	As Copper, not more than 50,000
4	Naphthalene	Not more than 30	Not more than 30	Not more than 70,000

Note (3) Referring to all products other than those only for automobiles

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Aerosol	Non-aerosol
1	Silver and its compounds	As silver, not more than 46	_(4)

Note (4) No content limit

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Ethanol, 2-propanol, acetone, titanium dioxide, glycerol, methanol, ethylene glycol, 2-phenoxyethanol, calcium carbonate, silicon dioxide, zinc oxide, 1,2-benzisothiazol-3(2H)-one (BIT), propylene glycol, diethylene glycol mono-n-butyl ether, 2,6-di-tert-butyl-p-cresol, sodium hydroxide, dipropylene glycol methyl ether

## Part 7 Auto product group

### Chapter 1 Windshield washer fluids for automobiles

#### 1. Scope of application

Windshield washer fluid for an automobile means a chemical product used for purposes listed in Table 1 when a windshield is used to clean the front and rear windows of an automobile.

**<Table 1> Purposes and formulation type of Windshield Washer Fluids for Automobiles**

Purpose <sup>(1)</sup>	Formulation type
General use and water repellent	Liquid type

Note (1) General use: windshield washer fluids whose active ingredient is ethanol For water repellent: water-repellent windshield washer fluids which are the combination of silicone ingredients, etc. and windshield washer fluids whose active ingredient is ethanol

#### 2. Restricted substances

1) Substances listed in the following Table 2, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 2> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

Substance name	General use and water repellent
Methanol	Not more than 0.6

#### 3. Safety requirements

Windshield washer fluids for automobiles, as colored liquids with the consistency of water not containing precipitates or floating foreign substances, shall comply with the limit prescribed for each purpose as specified in Table 3.

**<Table 3> Safety Requirements<sup>(2)</sup> for Windshield Washer Fluids for Automobiles**

Item			General use	Water repellent
Freezing point (fluid source), °C			Not more than -25.0	
pH value	Fluid source		6.5 ~ 10.0	4.0 ~ 10.0
	Minimum use volume		6.5 ~ 10.0	4.0 ~ 10.0
Cleaning ability (minimum use volume)			At least the same cleaning ability compared with other fluids	
Mixed (fluid source, sample:mixed test fluid=50:50)			No separation, precipitates, and deposits	
Water repellent (°)	Fluid source		-	Not less than 65
	Minimum use volume			
Corrosion in metals (minimum use volume) [(50±2)°C, 48h]	Changes in weight mg/cm <sup>2</sup>	Aluminium	± 0.30	
		Brass	± 0.15	
		Zinc coated steel sheet	± 0.80	
	Specimen appearance after tests		No severe pitting and roughness, except in joints between specimen and spacer	
Impact on rubber (Fluid source) [(50±2)°C, 120h]	Changes in weight %	Natural gas	± 1.5	
		Chloroprene rubber	± 2.0	
		Ethylene propylene diene monomer rubber	± 2.0	
	Changes in hardness IRHD or HS	Natural gas	± 3.0	
		Chloroprene rubber	± 3.0	
		Ethylene propylene diene monomer rubber	± 3.0	
Specimen appearance after tests		No viscosity on the surface, and no carbon black separation, crack, etc.		
Impact on coatings (Fluid source) [(50±2)°C, 6h]	Coating surface appearance after tests	Paint-coated acryl resin enamel steel plate (metallic color)	Blue	No coating softening and blistering, and no significant change in the gloss levels and colors compared to the ones before and after tests. In addition, windshield washer fluids shall have a neglectable amount of pigment fixing.
		Aminoalkyd Resin enamel steel plate (solid color)	White	
			Black	

Item			General use	Water repellent		
Impact on plastics [(50±2)°C, 120h]	Changes in weight mg/cm <sup>2</sup>	Polyethylene	± 1.0			
		Polypropylene	± 1.0			
		ABS resin	± 4.0			
		Plasticized polyvinyl chloride	± 3.0			
		Polyacetal	± 3.0			
	Specimen appearance after tests			No significant change		
Stability	Heat stability [(50±2)°C, 8h]	pH value	Fluid source	6.5 ~ 10.0	4.0 ~ 10.0	
			Minimum use volume	6.5 ~ 10.0	4.0 ~ 10.0	
		Fluid appearance after tests		No crystalline precipitate		
	Low temperature stability [(-15±2)°C, 8h]	Fluid source		No crystalline precipitate		
		Minimum use volume		No crystalline precipitate		
Flash point (fluid source)			To record measurements			

Note (2) The safety requirements for windshield washer fluids which are included in a package when a new automobile is released may be subject to the standards separately controlled by the automobile manufacturer.

## Chapter 2 Engine antifreezes

### 1. Scope of application

Antifreeze means a chemical product to prevent the freezing, corrosion, etc. of a liquid-cooled internal combustion engine, for purposes listed in Table 1.

**<Table 1> Purposes and formulation type of Engine Antifreezes**

Purpose	Formulation type
Vehicles (ethylene glycol) Vehicles (propylene glycol)	Liquid type

### 2. Safety requirements

Engine antifreezes, as colored liquids with the consistency of water not containing sediments or floating foreign substances, shall comply with the limit prescribed for each purpose as specified in Tables 2 and 3.

**<Table 2> Safety Requirements<sup>(1)</sup> for Concentrated Antifreezes**

Item			Ethylene glycol	Propylene glycol	
Freezing point (°C)			50 vol% aqueous solution	Not more than -34.0	Not more than -32.0
			30 vol% aqueous solution	Not more than -14.5	-
pH			30 vol% aqueous solution	7.0 ~ 11.0	-
			50 vol% aqueous solution	-	7.5 ~ 11.0
Reserve alkalinity			Fluid source	To be reported	
Metal corrosion 30 vol% mixed aqueous solution aqueous solution	Metal specimen	Changes in weight (mg/cm <sup>2</sup> )	Aluminium casting	±0.30	±0.30
			Cast iron	±0.15	±0.15
			Steel	±0.15	±0.10
			Brass	±0.15	±0.10
			Solder	±0.30	±0.30
		Copper	±0.15	±0.10	
Appearance			No corrosion to be observed with the naked eyes, except in joints between specimen and spacer		

Item			Ethylene glycol	Propylene glycol	
(88±2) °C, (336±2) h			Provided, That discoloration is not an issue.		
		Bubble during tests	No overflowing of foam from the condenser		
	Fluid properties after tests		pH	6.5 ~ 11.0	
			Changes in pH	±1.0	
			Changes in reserve alkalinity (%)	To be reported	
			Liquid	No significant change in color; no significant change such as fluid separation and gel occurrence	
	Precipitation (vol%)	Not more than 0.5			
Specific gravity Ethylene glycol (20/20 °C) Propylene glycol (15.5/15.5 °C)		Fluid source	Not less than 1.114	1.030 ~ 1.065	
Boiling point (°C)		Fluid source	Not less than 155	Not less than 152	
Foam ability (mL)		30 vol% aqueous solution	Not more than 4		
Water (%)		Fluid source	Not more than 5.0		
Cyclic corrosion  30 vol% mixed aqueous solution aqueous solution (88±3) °C, (1000±2) h	Metal specimen	Changes in weight (mg/cm <sup>2</sup> )	Aluminium casting	±0.60	
			Cast iron	±0.30	±0.20
			Steel	±0.30	±0.20
			Brass	±0.30	±0.20
			Solder	±0.60	
			Copper	±0.30	±0.20
		Appearance		No corrosion to be observed with the naked eyes, except in joints between specimen and spacer Provided, That discoloration is not an issue.	
	Fluid properties after tests		pH	6.5 ~ 11.0	
			Changes in pH	±1.0	
			Changes in reserve alkalinity (%)	To be reported	
			Liquid	No significant change in color; no significant change such as fluid separation and gel occurrence	
Conditions of parts		Pump seal portion	No operation failure, fluid leaks and abnormal noise		
		Pump casing inside and pump vanes	No dramatic change expected		

Note (1) The safety requirements for antifreezes which are included in a package when a new automobile is released may be subject to the standards separately controlled by the automobile manufacturer.

**<Table 3> Safety Requirements<sup>(3)</sup> for 50 Vol% Pre-Diluted Antifreezes**

Item			Ethylene glycol	Propylene glycol	
Freezing point (°C)		Fluid source	Not more than -34.0	Not more than -32.0	
pH		Fluid source	7.0 ~ 11.0	7.5 ~ 11.0	
Reserve alkalinity <sup>(4)</sup>		Fluid source	To be reported		
Metal corrosion  60 vol% mixed aqueous solution (88±2) °C, (336±2) h	Metal Specimen	Changes in weight (mg/cm <sup>2</sup> )	Aluminium casting	±0.30	±0.30
			Cast iron	±0.15	±0.15
			Steel	±0.15	±0.10
			Brass	±0.15	±0.10
			Solder	±0.30	±0.30
			Copper	±0.15	±0.10
	Appearance		No corrosion to be observed with the naked eyes, except in joints between specimen and spacer: Provided, That discoloration is not an issue.		
	Bubble during tests		No overflowing of foam from the condenser		
	Fluid properties after tests	pH		6.5 ~ 11.0	
		Changes in pH		±1.0	
Changes in reserve alkalinity (%)		To be reported			
Liquid		No significant change in color; no significant change such as fluid separation and gel occurrence			
Precipitation (vol%)		Not more than 0.5			
Specific gravity Ethylene glycol (20/20 °C) Propylene glycol (15.5/15.5 °C)		Fluid source	Not less than 1.065	Not less than 1.025	
Boiling point (°C)		Fluid source	Not less than 108	Not less than 104	
Foam ability (mL)		60 vol% aqueous solution	Not more than 4		
Cyclic	Meta	Changes	Aluminium casting	±0.60	

Item			Ethylene glycol	Propylene glycol	
corrosion  60 vol% mixed aqueous solution (88±3) °C, (1000±2) h	I Specimen	in weight (mg/m <sup>2</sup> )	Cast iron	±0.30	±0.20
			Steel	±0.30	±0.20
			Brass	±0.30	±0.20
			Solder	±0.60	
			Copper	±0.30	±0.20
	Appearance		No corrosion to be observed with the naked eyes, except in joints between specimen and spacer: Provided, That discoloration is not an issue.		
	Fluid properties after tests		pH	6.5 ~ 11.0	
			Changes in pH	±1.0	
			Changes in reserve alkalinity (%)	To be reported	
			Liquid	No significant change in color; no significant change such as fluid separation and gel occurrence	
Conditions of parts		Pump seal portion	No operation failure, fluid leaks and abnormal noise		
		Pump casing inside and pump vanes	No significant change expected		

Note (2) The safety requirements for antifreezes which are included in a package when a new automobile is released may be subject to the standards separately controlled by the automobile manufacturer.

## Part 8 Printing and documents–related product group

### Chapter 1 Ink cartridges and toners

#### 1. Scope of application

Ink cartridge or toner means a chemical product used for purposes listed in Table 1 as liquid type consumables, etc. for inkjet printers and powder type consumables, etc. for laser printers or photocopiers, all used in daily living spaces such as homes, offices, and public–use facilities.

**<Table 1> Purposes of Ink Cartridges and Toners**

Ink cartridges and toners
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#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Lead and its compounds	All formulation types	As lead, not more than 1
2	Cadmium and its compounds	All formulation types	As cadmium, not more than 1
3	Mercury and its compounds	All formulation types	As mercury, not more than 1
4	Arsenic and its compounds	All formulation types	As arsenic, not more than 5
5	Hexavalent chromium	All formulation types	-(1)
6	Nonylphenols	All formulation types	-(1)
7	Certain aromatic amines derived from azo dyes	All formulation types	-(1)
8	1,4-Dioxane	All formulation types	Not more than 5

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(2) Substances presented in the Regulations on Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Confirmation (Biphenyl-4-ylamine, Benzidine, 4-Chloro-o-toluidine, 2-Naphthylamine, o-Aminoazotoluene, 5-Nitro-o-toluidine, p-Chloroaniline, 2,4-Diaminoanisole, 4,4'-Methylenedianiline, 3,3'-Dichlorobenzidine, 3,3'-Dimethoxybenzidine, 3,3'-Dimethylbenzidine, 4,4'-Methylenedi-o-toluidine, p-Cresidine, 4,4'-Methylene-bis-(2-chloro-aniline), 4,4'-Oxydianiline, ,4'-Thiodianiline, o-Toluidine, Toluene-2,4-diamine, 2,4,5-Trimethylaniline, o-Anisidine, 4-Aminoazobenzene, 2,4-Xylidine, 2,6-Xylidine)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Substance name	Ink cartridge	Toner
Benzene	Not more than 17	Not more than 5

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	Formulation type
1	Sulfuric acid	Not more than 0.3
2	propylene glycol	Not more than 5 <sup>(2)</sup>
3	2-propanol	Not more than 25
4	propyl alcohol	Not more than 15
5	ethylene glycol	Not more than 15
6	diethylene glycol mono-n-butyl ether	Not more than 10
7	zinc oxide	Not more than 7
8	1,2-benzisothiazol-3(2H)-one (BIT)	Not more than 1
9	a mixture of methylisothiazolinone (MIT) and 5-chloro-2-methylisothiazolinone (CMIT) <sup>(3)</sup>	Not more than 0.04
10	silver and its compounds	As silver, not more than 15

Note (2) Limited to toner products, and for ink products, 15% (w/w) or less shall apply

(3) Limited to non-aerosol products

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Ethanol, titanium dioxide, glycerol, sodium carbonate, sodium hydroxide, silicon dioxide

## Chapter 2 Red seal ink pads

### 1. Scope of application

Red seal ink pad means a chemical product used for purposes listed in Table 1, as a red color product for stamping a seal for office use, etc. by adding oil, lake color, etc. to fibers such as cotton and sawdust in daily living spaces such as homes, offices, and public-use facilities:

Provided, That stamp ink pads whose sponge is soaked or impregnated with ink, or red seal ink pads for calligraphy, etc. shall not be included.

**<Table 1> Purposes of Red Seal Ink Pads**

Office use
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Arsenic and its compounds	All formulation types	As arsenic, Not more than 5
2	Cadmium and its compounds	All formulation types	As cadmium, Not more than 1

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

<b>Serial No.</b>	<b>Substance name</b>	<b>All formulation types</b>
1	Mercury and its compounds	As mercury, Not more than 500
2	Lead and its compounds	As lead, Not more than 500

## Chapter 3 Correction fluids and tapes

### 1. Scope of application

Correction fluid or tape means a chemical product used for purposes listed in Table 1 as a liquid or tape type product to correct the letters handwritten with a ballpoint pen which cannot be erased with an eraser in daily living spaces such as homes, offices, and public-use facilities.

**<Table 1> Purposes of Correction Fluids and Tapes**

Correction of printed documents
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Tetrachloroethylene	All formulation types	Not more than 5

## Part 9 Beauty product group

### Chapter 1 Adhesives for beauty

#### 1. Scope of application

Adhesive for beauty product means a chemical product used for purposes listed in Table 1 by gluing wigs, body hairs, false eyelashes and fake nails to the body part or creating double eyelids, for beauty or makeup purposes: Provided, That any product, etc. falling under the following shall not be included:

- 1) Tape or sticker type products for beauty among adhesives;
- 2) Adhesives for products prescribed in Annex 11 (children's accessories) among children's products subject to the supplier's declaration of conformity whose individual safety standards exist under Article 25 (2) of the Special Act on the Safety of Children's Products.

**<Table 1> Purposes of Adhesives for Beauty**

Wigs, body hairs, false eyelashes, double eyelids, and nails
--

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit:mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Trichloroethylene	All formulation types	Not more than 5
3	Tetrachloroethylene	All formulation types	Not more than 5
4	Vinyl chloride	All formulation types	Not more than 5
5	Triphenyl tin compounds (TPT)	All formulation types	_(1)
6	Tributyl tin compounds (TBT)	All formulation types	_(1)
7	Tributyltin oxide	All formulation types	_(1)
8	Organic mercury compounds	All formulation types	_(1)
9	Toluene Diisocyanate	All formulation types	_(1)
10	Acrylonitrile	All formulation types (excluding cyanoacrylate series)	_(1)
11	Dichloromethane	All formulation types	_(1)
12	2-Butoxyethanol (butyl cellosolve)	All formulation types	_(1)
13	Naphthalene	All formulation types	_(1)
14	Lead and its compounds	All formulation types	As Lead, not more than 1
15	Arsenic and its compounds	All formulation types	As Arsenic, not more than 5
16	Antimony trioxide	All formulation types	Not more than 2 (as antimony)
17	Chloroform	All formulation types	_(1)
18	Dimethylformamide	All formulation types	_(1)
19	Methal methacrylate	All formulation types	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Used in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Formaldehyde	Not more than 20 <sup>(2)</sup>
2	Toluene	Not more than 1,000
3	Xylene (mixture of o-,m-,p-isomers)	Not more than 500
4	Acrylonitrile <sup>(3)</sup>	Not more than 200
5	Hydroquinone <sup>(3)</sup>	Not more than 1,000

Note (2) Applying less than 1% to adhesives for beauty whose active ingredients are cyanoacrylate series

(3) Applying only to adhesives for beauty whose active ingredients are cyanoacrylate series

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	2,6-Di-tert-butyl-p-cresol	Not more than 50
2	2-Octyl-3(2H)-isothiazolone (OIT)	Not more than 7
3	Dibutyl phthalate	Not more than 0.1
4	1,2-Benzisothiazol-3(2H)-one (BIT)	Not more than 20

#### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Propylene glycol, ethanol, 2-propanol, citric acid, methylparaben, benzyl alcohol, 2-phenoxyethanol, sodium carbonate, silicon dioxide, diethylene glycol mono-n-butyl ether, glycerol, ethylene glycol, benzyl benzoate, sodium bicarbonate, 1,2-pentanediol, titanium dioxide, dipropylene glycol methyl ether

## Part 10 Management product group for Leisure goods

### Chapter 1 Cleaners/Brightener for Sporting goods

#### 1. Scope of application

Cleaners/Brightener for Sporting goods means a chemical product used for purposes listed in Table 1 to clean or remove dirt or foreign substances from sporting goods or to provide a brightening effect in households, offices, or public-use facilities: Provided, That products used for clothing shall not be included.

**<Table 1> Purposes of Cleaners/Brightener for Sporting goods**

Golf equipment, bowling equipment, and table tennis equipment
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#### 2. Restricted substances

- 1) Substances listed in the following Table 2, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 2> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Golf equipment		Bowling equipment		Table Tennis equipment	
		Aerosol	Non-aerosol	Aerosol	Non-aerosol	Aerosol	Non-aerosol
1	Benzene	Not more than 50	Not more than 10	Not more than 130	Not more than 100	Not more than 120	Not more than 10

- 2) Where a substance listed in the following Table 3 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Used in Products**

(Unit: %(w/w))

<b>Serial No.</b>	<b>Substance name</b>	<b>Aerosol</b>	<b>Non-aerosol</b>
1	Titanium dioxide	Not more than 2	Not more than 0.3
2	3-iodo-2-propynyl butylcarbamate (IPBC)	Not more than 5	Not more than 3
3	dipropylene glycol methyl ether	-(1)	Not more than 10
4	citric acid	-(1)	Not more than 20
5	2-propanol	-(1)	Not more than 55

Note (1) No content limit

### 3. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 3 (to use such substances, compliance with the standards for content is required);
- 2) glycerol, Ethanol

## Part 11 Disinfection products group

### Chapter 1 Disinfectants

#### 1. Scope of application

Disinfectant means a chemical product used for purposes listed in Table 1 to keep homes, offices, vehicles, public-use facilities sterilized, free of bacteria, disinfected, etc: Provided, That any product falling under the following shall not be included:

- 1) Cleansing and hygiene products (wet towels, wet wipes, etc.) under subparagraph 1 of Article 2 of the Cleansing and Hygiene Products Control Act;
- 2) Disinfectant and antibacterial products that are used for sterilizing and disinfecting any apparatus, containers or packages for food, which can have an indirect impact on food;
- 3) Treated articles such as preservative-treated filter products;
- 4) Products that are used or applied directly to humans or animals;
- 5) Disinfectants used in connection with medical practices within hospitals or other non-routine living spaces (such as disinfectants for medical devices).

**<Table 1> Purposes of Disinfectants**

General use	Ordinary objects <sup>(1)</sup> , drains, filters <sup>(2)</sup> , mold removal and enclosed spaces <sup>(3)</sup>
Special purpose	products for children only <sup>(4)</sup> , and tooth brushes or tongue cleaners
electrolytic sterilizers purpose <sup>(5)</sup>	Ordinary objects <sup>(6)</sup> , electric mop cleaners and toilet water tanks

Note (1) Limited to products used for general objects excluding those for masks or for the human body

(2) Limited to liquid disinfectants sprayed intermittently through a spray only for air disinfection

- (3) Limited to spaces where people cannot enter, such as refrigerators and shoe cabinets, and detailed purposes of use shall be stated together
- (4) Referring to disinfectants for products only for children not older than 13 years
- (5) Limited to products that generate sterilizing water from chloride ions on site through an electrolytic device
- (6) Limited to products for electrolytic sterilizers used for general objects excluding those for masks or for the human body

## 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Product and formulation type	Detection limit
1	Benzene	All products (all formulation types)	Not more than 5
2	Vinyl chloride	All products (all formulation types)	Not more than 5
3	Diethylene glycol monobutyl ether	All products (all formulation types)	_(7)
4	Mercury	All products (all formulation types)	Not more than 1
5	Ethylene oxide	All products (all formulation types)	_(7)
6	Acrylic acid	All products (all formulation types)	_(7)
7	Hypochlorite compounds	Special purpose(all formulation types)	As available chlorite, not

Serial No.	Substance name	Product and formulation type	Detection limit
			more than 10
8	Boric acid	Products for children only (all formulation types)	As Boron(B), not more than 10
9	Lead	Tooth brushes and tongue cleaners (all formulation types)	Not more than 1
10	Cadmium	Tooth brushes and tongue cleaners (all formulation types)	Not more than 1
11	Arsenic	Tooth brushes and tongue cleaners (all formulation types)	Not more than 1

Note (7) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol	Non-aerosol
1	Formaldehyde	not more than 40	not more than 100
2	Acetaldehyde	not more than 100	not more than 200
3	Chloroform	not more than 30	not more than 30

Serial No.	Substance name	Aerosol	Non-aerosol
4	1,2-Dichloropropane	not more than 50	not more than 200
5	cerium oxide	AS cerium, not more than 1,000	AS cerium, not more than 1,500
6	1-methoxy-2-propanol	not more than 8,000	not more than 10,000
7	sodium nitrite <sup>(8)</sup>	As nitrite ion, not more than 80	As nitrite ion, not more than 80
8	Persulfates <sup>(9)</sup>	As persulfate, not more than 800	As persulfate, not more than 800

Note (8) Limited to products for children only

(9) Limited to tooth brushes or tongue cleaners

#### 4. Active ingredients that can be used

Active ingredients in disinfectants are as follows: Provided, That substances falling under items 2) through 7) may be used only if they are existing active substances that can be used for disinfectants publicly announced under Article 18 (3) of the Act and their approval deferment period under Article 3 of the Addenda of the Act has not expired.

- 1) Active substances approved for use in disinfectants under Article 12 (1) of the Act;
- 2) Substances listed in Table 4 (compliance with the content limit required when used);
- 3) o-Benzyl-p-chlorophenol, sodium carbonate, chloroxylenol, 4-chloro-3,5-dimethylphenol, 2-phenoxyethanol, potassium carbonate, zinc sulfate, tetraacetylenediamine, glycerol, propylene glycol, salicylic acid, propyl alcohol,

2-phenylphenol, benzyl alcohol, calcium oxide, triclosan, boric acid, propiconazole, symclosene, trichloroisocyanuric acid, 4-chloro-m-cresol, citric acid, hexadecyltrimethylammonium chloride, titanium dioxide, ethanol, hydroxyacetic acid, ethoxylated alcohol (C=12-14) (limited to general non-spray type);

- 4) Zeolite, troclosene sodium, sodium dichloroisocyanurate dihydrate (NaDCC), alkyl dimethyl benzyl ammonium chloride, benzyl (C12-C14) alkyl dimethyl ammonium chloride, alkyl (C12-C14) [(ethylphenyl)methyl] dimethyl ammonium chloride, benzyl alkyl (C12-C16) dimethyl ammonium chloride, (C12-C18) alkyl benzyl dimethyl ammonium chloride, alkyl (C12-C18) dimethyl ethylbenzyl ammonium chloride, potassium peroxymonosulfate sulfate (limited to general non-spray type);
- 5) Ethanol, glycerol (limited to products for children's products);
- 6) Ethanol, sodium bicarbonate, glycerol (limited to products for toothbrushes and tongue cleaners);
- 7) Substances other than those specified in items 2) through 6), the risk assessment results under Article 8 of the Act of which indicate that they are below the level not known to cause risks to the human body.

**<Table 4> Active Ingredients that Can Be Used in Disinfectants**

Category	Serial No.	Substance name	Aerosol	Non-aerosol
General use	1	Hydrochloric acid	As HCl, not more than 0.07	As HCl, not more than 0.1
	2	Copper	not more than 5	_(10)
	3	Copper(II) sulfate	As Copper, not more than 5	_(10)

Category	Serial No.	Substance name	Aerosol	Non-aerosol
	4	copper(II) sulfate and pentahydrate	As Copper, not more than 5	— <sup>(10)</sup>
	5	ethylenediaminetetraacetic acid tetrasodium salt	not more than 20	— <sup>(10)</sup>
	6	potassium hydroxide or sodium hydroxide	As NaOH, not more than 5	As NaOH, not more than 5
	7	2-propanol	not more than 50	not more than 50
	8	hydrogen peroxide <sup>(11)</sup>	not more than 0.5	not more than 0.5
	9	hypochlorous acid	As available chlorine, not more than 5	As available chlorine, not more than 5
	10	calcium hypochlorite	As available chlorine, not more than 5	As available chlorine, not more than 5
	11	sodium hypochlorite	As available chlorine, not more than 5	As available chlorine, not more than 5
	12	chlorine dioxide <sup>(12)</sup>	not more than 10	not more than 10
	13	monoethanolamine	not more than 0.3	not more than 0.3
	14	Formic acid	not more than 1.5	not more than 1.5
	15	zinc oxide	not more than 10	— <sup>(10)</sup>
	16	1,2-benzisothiazol-3(2H)-one (BIT)	not more than 30	not more than 35
	17	sodium pyrithione	not more than 3.0	— <sup>(10)</sup>
	18	Silver	not more than 1	— <sup>(10)</sup>
	19	zinc pyrithione	not more than 4	— <sup>(10)</sup>

Category	Serial No.	Substance name	Aerosol	Non-aerosol	
	20	2-octyl-3(2H)-isothiazolone (OIT)	not more than 8	not more than 15	
	21	3-iodo-2-propynyl butylcarbamate (IPBC)	not more than 8	_(10)	
	22	didecyldimethylammonium chloride	not more than 0.2	not more than 50	
	23	dioctyldimethylammonium chloride	not more than 0.2	not more than 20	
	24	octyldecyldimethylammonium chloride	not more than 0.2	not more than 50	
	25	glycerol <sup>(13)</sup>	not more than 30	not more than 30	
products for children only	1	2-Phenoxyethanol	not more than 2	not more than 1.3	
	2	citric acid	not more than 3	not more than 2	
Category	Serial No.	Substance name	Ordinary objects	electric mop cleaners	toilet water tanks
electrolytic sterilizers purpose	1	Available chlorine <sup>(14)</sup>	not more than 0.019	not more than 0.008	not more than 0.0025

Note (10) No content limit

- (11) Limited to aerosol products for filters, and the content standard for aerosol products shall be 0.3% or less
- (12) Limited to liquid products, and the unit shall be mg/L
- (13) Limited to filter-type products
- (14) Active chlorine generated by an electrolytic method from tap water, sodium chloride, and hydrochloric acid pursuant to Article 2 (1) of the "Designation of Existing Active Substances Subject to Approval Deferment" (Notice of the National Institute of Chemical Safety)

## 5. Microbial limits in Products

Products used for special purposes (e.g., children only products, toothbrushes, and tongue cleaners) must have a Total Aerobic Microbial Count (TAMC) of 500 CFU/g (mL) or less. Additionally, *Escherichia coli*, *Pseudomonas aeruginosa*, and *Staphylococcus aureus* must be absent. These standards shall comply with the Microbial Limit Test under the General Test Methods of the Korean Pharmacopoeia (KP).

## Chapter 2 Algicide

### 1. Scope of application

Algicide means a chemical product to inhibit the growth of, and lead to the death of, algae that exist in water of indoor or outdoor pool facilities, fish bowls, etc. at ordinary homes, offices, and public-use facilities, etc., for purposes listed in Table 1.

**<Table 1> Purposes of Algicides**

Fish bowls, fountains, ponds, and swimming pools
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### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Substance name	Product and formulation type	Detection limit
Mercury	All products (all formulation types)	Not more than 1

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Chemical Substances**

(Unit: mg/kg)

Serial No.	Substance name	Aerosol	Non-aerosol
1	Methyl ethyl ketone peroxide	Not more than 600	Not more than 600
2	Chloroform	Not more than 100	Not more than 300
3	Peracetic acid	Not more than 1,400	-(1)

Note (1) No content limit

#### 4. Active ingredients that can be used

Active ingredients in disinfectants are as follows: Provided, That substances falling under items 2) through 5) may be used only if they are existing active substances that can be used for algicide publicly announced under Article 18 (3) of the Act and their approval deferment period under Article 3 of the Addenda of the Act has not expired.

- 1) Active substances approved for use in algicide under Article 12 (1) of the Act;
- 2) Substances listed in Table 4 (compliance with the content limit required when used);
- 3) Symclosene, troclosene sodium
- 4) Zeolite (limited to non-aerosol-type products)
- 5) Substances other than those specified in items 2) through 4), the risk assessment results under Article 8 of the Act of which indicate that they are below the level not known to cause risks to the human body.

**<Table 4> Active Ingredients that Can Be Used in Algicides**

Serial No.	Substance name	Aerosol	Non-aerosol
1	Calcium hypochlorite	As available chlorine, not more than 10	As available chlorine, not more than 5
2	Sodium hypochlorite	As available chlorine, not more than 0.3	As available chlorine, not more than 1
3	Chlorine dioxide <sup>(2)</sup>	Not more than 20	Not more than 10
4	copper(II) sulfate pentahydrate	As copper, not more than 3	As copper, not more than 15
5	Hydrogen peroxide	Not more than 0.3	Not more than 0.3

Note (2) Limited to liquid products, and the unit shall be mg/L

## Part 12 Insecticides and repellents

### Chapter 1 Insect repellents

#### 1. Scope of application

Insect repellent means a chemical product to prevent access by rice weevils, not to disinfect or kill insects in daily living spaces such as homes, offices, and public-use facilities, for purposes listed in Table 1: Provided, That repellents for public health used against flies, mosquitoes, etc. and repellents, etc. that have direct contact with the human body shall not be included.

**<Table 1> Purposes of Insect Repellents**

Rice weevils, silverfish, and winged insects <sup>(1)</sup>
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Note (1) Purposes of insect repellents against specific winged insects including chironomidae and mayfly may be stated in detail.

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Product and formulation type	Detection limit
1	Tetrachloroethylene	All products (all formulation types)	Not more than 5

Serial No.	Substance name	Product and formulation type	Detection limit
2	Trichloroethylene	All products (all formulation types)	Not more than 5
3	Vinyl chloride	All products (all formulation types)	Not more than 5
4	Naphthalene	Products for winged insects (all formulation types)	_(2)
5	1,4-Dichlorobenzene	All products (all formulation types)	_(2)
6	Ingredients registered in the Pesticide Control Act (Act No. 14980)	All products (all formulation types)	_(2)
7	Active ingredients registered as household insecticides	All products (all formulation types) <sup>(3)</sup>	_(2)
8	Ingredients registered as insecticides to control and prevent pests for quarantine purposes	All products (all formulation types)	_(2)
9	Mercury	All products (all formulation types)	Not more than 1

Note (2) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

(3) Silverfish products are excluded.

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Rice weevils and silverfish	Winged insects
		All formulation types	All formulation types
1	Formaldehyde	Not more than 5	Not more than 5
2	Acetaldehyde	Not more than 40	_(4)
3	Dimethylformamide	_(4)	Not more than 300

Note (4) No content limit

#### 4. Active ingredients that can be used

Active ingredients in insect repellents are as follows: Provided, That substances falling under items 2) through 7) may be used only if they are existing active substances that can be used for insect repellents publicly announced under Article 18 (3) of the Act and their approval deferment period under Article 3 of the Addenda of the Act has not expired.

- 1) Active substances approved for use in disinfectants under Article 12 (1) of the Act;
- 2) Substances listed in Table 4 (compliance with the content limit required when used);
- 3) Diethyl meta-toluamide, mustard seed oil, and dipropylene glycol methyl ether (limited to products for rice weevils);
- 4) Citronella oil, diethyl meta-toluamide, mustard seed oil, and dipropylene glycol methyl ether (limited to products for silverfish);
- 5) Camphor (limited to non-aerosol-type products for silverfish);
- 6) Citronella oil, cedarwood oil, orange peel oil, and diethyltoluamide (limited to aerosol-type products for winged insects);
- 7) Substances other than those specified in items 2) through 6), the risk assessment results under Article 8 of the Act of

which indicate that they are below the level not known to cause risks to the human body.

**<Table 4> Active Ingredients that Can Be Used in Insect Repellents**

Classification	Substance name		Aerosol	Non-aerosol
<b>Rice weevils and silverfish</b>	1	Transfluthrin <sup>(5)</sup>	Not more than 30	_(6)
	2	Ethanol	_(6)	Not more than 30
	3	Methyl salicylate	Not more than 45	_(6)
	4	Pyrethrum <sup>(5)</sup>	Not more than 2.5	_(6)
	5	Chlorine dioxide <sup>(7)</sup>	Not more than 100	Not more than 500
	6	3-Methoxy-3-methyl-1-butano	Not more than 6.5	_(6)
<b>Winged insects</b>	1	Ethanol	_(6)	Not more than 25

Note (5) Limited to silverfish

(6) No content limit

(7) Limited to liquid products, and the unit shall be mg/L

## Part 13 Preservative products, Preservative–treated products

### Chapter 1 Wood Preservatives

#### 1. Scope of application

Wood preservative means a chemical product to prevent woods in daily living spaces such as homes, offices, and public–use facilities from getting rotted and deteriorated, for purposes listed in Table 1: Provided, That any product, etc. which constitutes a paint under the Clean Air Conservation Act shall not be included.

**<Table 1> Purposes of Preservatives**

Woods
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#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance na	Formulation type	Detection limit
1	Benzene	All formulation types	Not more than 5
2	Trichloroethylene	All formulation types	Not more than 5
3	Vinyl chloride	All formulation types	Not more than 5

Serial No.	Substance name	Formulation type	Detection limit
4	Chromic anhydride	All formulation types	_(1)
5	Sodium dichromate dihydrate	All formulation types	_(1)
6	Sodium pentachlorophenate	All formulation types	_(1)
7	Tributyltin oxide	All formulation types	_(1)
8	Mercury	All formulation types	Not more than 1

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	All formulation types
1	Ethylbenzene	Not more than 700
2	(1-Methyl ethyl) Benzene	Not more than 700
3	Xylene (mixture of o-,m-,p-isomers)	Not more than 60
4	Toluene	Not more than 70

#### 4. Active ingredients that can be used

Active ingredients in wood preservatives are as follows: Provided, That substances falling under items 2) through 5) may be used only if they are existing active substances that can be used for wood preservatives publicly announced under Article 18 (3) of the Act and their approval deferment period under Article 3 of the Addenda of the Act has not expired.

- 1) Active substances approved for use in wood preservatives under Article 12 (1) of the Act;;
- 2) Substances listed in Table 4 (compliance with the content limit required when used);
- 3) Boric acid, propiconazole, ethanol, borax;
- 4) Copper(II) oxide, zeta-cypermethrin (limited to non-spray type);
- 5) Substances other than those specified in items 2) through 4), the risk assessment results under Article 8 of the Act of which indicate that they are below the level not known to cause risks to the human body.

**<Table 4> Active Substances that Can Be Used in Products**

Serial No.	Substance name	Aerosol	Non-aerosol
1	3-iodo-2-propynyl butylcarbamate (IPBC)	Not more than 10	_(2)
2	1,2-benzisothiazol-3(2H)-one (BIT)	Not more than 40	_(2)
3	didecyldimethylammonium chloride	Not more than 0.3	Not more than 60
4	2-octyl-3(2H)-isothiazolone (OIT)	Not more than 0.6	_(2)

Note (2) No content limit

## Chapter 2 Preservative–treated filter product

### 1. Scope of application

Preservative–treated filter product means a product containing active substances on the surface or inside of a filter to have, the filter on an air purifier or air conditioner in indoor spaces such as homes or automobiles, free of bacteria, sterilized, disinfected and preserved, etc. as specified in Table 1: Provided, That such product shall not include an air conditioner filter or water purification filter located in a building.

**<Table 1> Purposes and Formulation Types of Preservative-Treated Filter Products**

<b>Purpose</b>	<b>Formulation type</b>
Air purifiers and air conditioners	Filter type

### 2. Restricted substances concerning emissions

Where substances listed in Table 2 are used in a preservative–treated filter product for antibacterial purposes, such substances shall comply with the emission limit prescribed.

**<Table 2> Standards of Emissions of Chemical Substances in Products<sup>(1)</sup>**

(Unit: mg)

<b>Serial No.</b>	<b>Substance name</b>	<b>Filter type</b>
1	Titanium dioxide	Not more than 1,000
2	Silicon dioxide	Not more than 40
3	Copper and its compounds	Not more than 70 as copper
4	Zinc oxide	Not more than 50

Serial No.	Substance name	Filter type
5	Silver nitrate	Not more than 15
6	Zinc pyrithione	Not more than 70
7	Octadecyldimethyl(3-trihydroxysilyl propyl) ammonium chloride, OPA	Not more than 2

Note (1) The amount of the relevant substance coming from a filter from the use of an air purifier or air conditioner.

### 3. Preservative substances Permitted for Use in products

Where active substances are used to store or preserve products and thereby to guarantee the shelf life of such products, only the following substances may be used: Provided, That where a person who intends to manufacture or import a product with substances listed under 2) and 3) not as shown in Table 2 shall receive a risk assessment under Article 8 of the Act by submitting, to the President of the Korea Environmental Industry and Technology Institute, an application for using preservative substances for preservative-treated filter products in attached Form 9, along with data evidencing safety such as hazard data and data containing the risk assessment of emissions by substance:

- 1) Substances listed in Table 2 (compliance with the emission limit by substance required when used): Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act;
- 2) Approved active substances to be used as preservatives for textile and leather products under Article 12 (1) of the Act: Provided, That such substances may be used only if the results of risk assessment indicate the emissions thereof are below the level not known to cause risks to the human

body.;

- 3) Existing active substances that can be used as preservatives for products under Article 18 (3) of the Act: Provided, That such substances may be used within the period of approval deferment therefor only if the results of risk assessment indicate the emissions thereof are below the level not known to cause risks to the human body.

## Part 14 Other product group

### Chapter 1 Candle

#### 1. Scope of application

Candle means a chemical product whose wicks are made of cotton yarn, cotton, chemical fiber, blended yarn, or wood, and whose body is made of paraffin, soy wax, palm wax, bees wax, or the combination of paraffin, etc. with a small amount of fatty acid or other curing agents, used in daily living spaces such as homes, offices, and public-use facilities for purposes listed in Table 1.

**<Table 1> Purposes of Candle**

Luminescence and aroma
------------------------

#### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Product	Detection limit
1	Benzene	For aroma	Not more than 5
2	Vinyl chloride	For aroma	Not more than 5

Serial No.	Substance name	Product	Detection limit
3	Trichloroethylene	For aroma	Not more than 5
4	Sodium tetraborate pentahydrate	For aroma	_(1)
5	1,4-Dichlorobenzene	For aroma	_(1)

Note (1) Below the quantitative limit for each substance specified in the 「Regulation on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification」 (Notice of the National Institute of Chemical Safety)

### 3. Restricted substances

Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Luminescent materials	Aroma
1	Lead and its compounds <sup>(2)</sup>	As lead, not more than 600	As lead, not more than 600
2	Formaldehyde	_(4)	Not more than 12
3	Glyoxal	_(4)	Not more than 30
4	Methanol <sup>(3)</sup>	_(4)	Not more than 2,000

Note (2) Referring to the total amount of lead contained in a candle's wicks and body

(3) Limited to liquid products

(4) No content limit

## Chapter 2 Dehumidifying agent

### 1. Scope of application

Dehumidifying agent means a chemical product used for purposes listed in Table 1 to ensure that relatively small spaces like wardrobes or closets in daily living spaces such as homes, offices, and public-use facilities are dehumidified: Provided, That those for product wrapping, foods or the human body shall not be included.

**<Table 1> Purposes of Dehumidifying Agents**

Indoor space <sup>(1)</sup> , furniture, storage space, shoes and fibers
--

Note (1) Including automobiles (indoor use)

### 2. Restricted substances

1) Substances listed in the following Table 2, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 2> Standards for Content of Substances Contained in Products**

(Unit: mg/L)

Serial No.	Substance name	All formulation types
1	Lead and its compounds	As lead, not more than 3.0
2	Cadmium and its compounds	As cadmium, not more than 0.3
3	Arsenic and its compounds	As arsenic, not more than 1.5
4	Mercury and its compounds	As mercury, not more than 0.005
5	Hexavalent chromium	Not more than 1.5
6	Dimethyl fumarate <sup>(2)</sup>	Not more than 0.1 mg/kg

Note (2) Limited to products whose active ingredient is silica gel

2) Where a substance listed in the following Table 3 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	2-Propanol	Not more than 45
2	citric acid	Not more than 4
3	benzyl alcohol	Not more than 8
4	geraniol	Not more than 1
5	benzyl benzoate	Not more than 5
6	zinc oxide	Not more than 1

### 3. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 3 (to use such substances, compliance with the standards for content is required);
- 2) 3-methoxy-3-methyl-1-butanol, propylene glycol, sodium bicarbonate, dipropylene glycol methyl ether, ethanol, titanium dioxide, calcium oxide, calcium hydroxide, sodium hydroxide, silicon dioxide, silver oxide, glycerol, zeolite.

## Chapter 3 Artificial snow spray

### 1. Scope of application

Artificial snow spray means a chemical product to spray out artificial snow flake to celebrate events like birthdays and weddings as specified in Table 1 in daily living spaces such as homes, offices and public-use facilities.

**<Table 1> Purposes and Formulation Types of Artificial Snow Sprays**

Purpose	Formulation type
Events <sup>(1)</sup>	Aerosols (spray type)

Note (1) The specific purposes may be stated in detail

### 2. Prohibited substances

Substances prohibited from being contained in a product shall be as listed in Table 2: Provided, That a substance for which the detection limit is prescribed is acknowledged only where the substance is unintentionally contained and it is technically impossible to completely remove such substance, and the detected amount in the product does not exceed its permissible limit.

**<Table 2> Prohibited Substances Contained in Products**

(Unit: mg/kg)

Serial No.	Substance name	Formulation type	Detection limit
1	Vinyl chloride	Aerosol	Not more than 5
2	Trichloroethylene	Aerosol	Not more than 5
3	Tetrachloroethylene	Aerosol	Not more than 5

### 3. Restricted substances

- 1) Substances listed in the following Table 3, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: mg/kg)

<b>Substance name</b>	<b>Aerosol</b>
Sodium laureth sulfate (SLES)	Not more than 1,000

- 2) Where a substance listed in the following Table 4 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 4> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

<b>Substance name</b>	<b>All formulation types</b>
Sodium nitrite	Not more than 7

### 4. Preservative substances Permitted for Use in products

The following substances may be used as active substances to store or preserve products and to thereby guarantee the shelf life of the products: Provided, That each substance may be used only within the period of use prescribed in the Addenda Article 4 of the Act.

- 1) Substances listed in Table 4 (to use such substances, compliance with the standards for content is required);
- 2) Ethanol, Sodium Hydroxide

## Chapter 4 Fog fluid for performance

### 1. Scope of application

Fog fluid for performance means a chemical product used for purposes listed in Table 1 to produce effects like smoke and fog by using a fogging device for performance or events.

**<Table 1> Purposes of Fog Fluids for Performance**

Performance (stage direction) and event purposes
--

### 2. Restricted substances

1) Substances listed in the following Table 2, though not used as raw materials in a product, shall comply with the content limit prescribed for each substance.

**<Table 2> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	Ethylene glycol	Not more than 10
2	Diethylene glycol	Not more than 10

2) Where a substance listed in the following Table 3 is used in the entire process of manufacturing a product including the manufacture of its raw materials, such substance shall comply with the content limit prescribed for each substance.

**<Table 3> Standards for Content of Substances Contained in Products**

(Unit: %(w/w))

Serial No.	Substance name	All formulation types
1	Glycerol	Not more than 10
2	Ethanol	Not more than 20
3	Linalool	Not more than 1
4	Benzyl Alcohol	Not more than 2

[Attached Table 3]

## Safety Standards for Containers or Packages, and Their Weight

### I. Containers and packages

#### 1. Safety standards

##### A. Appearance

- 1) The exterior shall be clean and there shall be no dangerous parts, such as sharp edges.
- 2) The structure shall not be deformed or otherwise damaged, and no contents shall be leaked.
- 3) In cases of a spray-type product that uses highly pressurized gas, it is required to use a container in compliance with the High-Pressure Gas Safety Control Act, and there doesn't appear to be leaks after spraying.
- 4) The container or package of a product shall not be identical or similar to the container, package, or appearance of food, so as not to cause misunderstanding or confusion with food.

##### B. Strength and leakage

- 1) When conducting a test on the strength of a container, there shall be no damage to the container, including its closure or body, and the contents must not be leaked.
- 2) When conducting a test on leakage of a container, the contents must not be leaked.
- 3) Water-soluble packaging material used for laundry detergent capsules shall meet the following standards.
  - a) It shall hold the contents for at least 30 seconds in water of

20 °C.

- b) Under standard test conditions [temperature (23 ± 2) °C, relative humidity (50 ± 5) %], it must withstand a compressive strength of at least 300 N.

## 2. Scope of application of safety standards

A. The safety standards for appearance and strength shall apply to all consumer chemical products subject to safety verification. However, safety standards for the strength of containers shall not apply to the following.

- 1) Containers which have passed inspection conducted under the High-Pressure Gas Safety Control Act
- 2) Fragile glass containers including decorative glass containers used for air freshener, deodorizer, and the like
- 3) Glass containers used in place of ones made of other materials than glass because the contents of other material containers might cause reactions or be deteriorated if the contents of a product were to come in contact with containers made of other materials
- 4) A solid finished product that does not require a separate container, such as candle
- 5) Products that have passed the electrical appliance safety verification(KC) under 「the Electrical Appliances and Household Products Safety Control Act」 (limited to products for electrolytic sterilizers among sterilizers).
- 6) Containers that have passed inspection under 「the Dangerous Goods Safety Management Act」 , 「the Ship Safety Act」 , or 「the Aviation Safety Act」 , or containers confirmed to comply with equivalent standards (such as KS T 1076) (limited to

cases where the weight or capacity is 50 kg or 50 L or more).

B. Safety standards for leak testing shall apply only to consumer chemical products subject to safety verification, the contents of which are of liquid type: Provided, That the foregoing shall not apply in any of the following.

- 1) A single-use package that becomes impossible to re-seal after opening
- 2) A separate dedicated container provided as a component for using the contents of the product, which cannot be locked.
- 3) Containers which have passed inspection under the High-Pressure Gas Safety Control Act
- 4) Paste products and the like that do not run or drip standing upside down at room temperature for five minutes
- 5) Containers that have passed inspection under 「the Dangerous Goods Safety Management Act」 , 「the Ship Safety Act」 , or 「the Aviation Safety Act」 , or containers confirmed to comply with equivalent standards (such as KS T 1076) (limited to cases where the weight or capacity is 50 kg or 50 L or more).

C. In cases of renewable ink or toner cartridges, the testing of the strength and leakage of containers shall be excluded for raw material products supplied by raw materials manufacturers and distribution business entities.

## **II. Weight or volume**

### **1. Safety standards**

In cases of testing on weight or volume, the volume indicated on a product or that of the actual content of the product shall not exceed the permissible error under Article 41 of the Measures Act and Article 36 of the Enforcement Decree thereof. Provided, That where the range is not prescribed in 「the Measures Act」, a permissible error of 1% shall apply.

### **2. Scope of application of safety standards**

Safety standards for weight or volume shall apply to all consumer chemical products subject to safety verification: Provided, That in any of the following cases, testing on weight or volume shall be excluded.

- 1) A separate dedicated container provided as a component for using the contents of the product
- 2) Products for electrolytic sterilizers among sterilizers

## **III. Appearance of products**

The appearance of a product shall not be identical or similar to the container, package, or appearance of food, so as not to cause misunderstanding or confusion with food.

[Attached Table 4]

## **Safety Standards for Child-Resistant Packaging**

Among consumer chemical products subject to safety verification, child-resistant packaging shall be applied in accordance with the following standards: Provided, That products which cannot be kept or used in the household shall not be included as products subject to child-resistant packaging.

### **I. Standards for products requiring child-resistant packaging**

Regardless of subsequent sections 'II. Standards for substances subject to child-resistant packaging' and 'III. Standards for exemption from application of child-resistant packaging', the following products shall preferentially require child-resistant packaging, taking into account the formulation types of such products.

- 1) Windshield washer fluids for automobiles
- 2) Engine antifreezes
- 3) Instant adhesive liquids (including adhesives for beauty purposes that are capable of instantly holding materials together)
- 4) Capsule-type laundry detergents

### **II. Standards for substances subject to child-resistant packaging**

Where a product contains any of the following substances, the container or package of the product shall require child-resistant packaging, taking into account the formulation type of such product.

**<Table 1> Standards for Substances Contained in Products**

<b>Standards for substances subject to child-resistant packaging</b>			<b>Standards for exemption from application of child-resistant packaging</b>
<b>Serial no.</b>	<b>Substance</b>	<b>Standard</b>	
1	Ethylene glycol	10% (w/w) or more	
2	Methanol	3% (w/w) or more	
3	Dichloromethane	1% (w/w) or more	
4	1,2-Dichloroethane	10% (w/w) or more	
5	Methylsalicylate	5 % (w/w) or more	
6	Sodium hydroxide or Potassium hydroxide <sup>(1)</sup>	NaOH contained in a product, 2 % (w/w) or more	
7	Methacrylic acid	5 % (w/w) or more	When used as absorbent material in a container, such as a pen marker
8	Formic acid	5 % (w/w) or more	
9	Sodium hypochlorite	2 % (w/w) or more	
10	Hydrogen Dioxide	5 % (w/w) or more	
11	Ethyl bromoacetate	All concentrations	
12	Morpholine	5 % (w/w) or more	
13	Acetonitrile <sup>(2)</sup>	Exceeding 500 mg	

Note (1) It shall apply to products using sodium hydroxide or potassium hydroxide, and the relevant requirement is for the concentration of the base in a product itself.

(2) It is limited to cases where such substance becomes an ingredient of adhesive remover.

2) Where the total of the following substances contained in a liquid product is 10 % or more and the product has the kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40°C

a) Straight-chain primary alcohol (3) containing from 3 to 13 carbon, and hydrogen

Note (3) 1-propanol, 1-butanol, 1-pentanol, 1-hexanol, 1-heptanol, 1-octanol, 1-nonanol, 1-decanol, 1-undecanol, 1-dodecanol, 1-tridecanol

b) Isobutyl alcohol

c) Terpene alcohol

d) Ketone containing from 3 to 13 carbon, and hydrogen

e) Hydrocarbons containing from 3 to 13 carbon, and hydrogen

3) Where the final substances contained in a liquid product have a pH of 2.0 or less or a pH of 11.5 or greater, and the product has the kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40°C

### III. Standards for exemption from application of child-resistant packaging

Notwithstanding of above section 'II. Standards for substances subject to child-resistant packaging', child-resistant packaging is not required where relevant products or their formulation types fall within the following categories.

- 1) Where packed in containers that are to be opened using separate tools
- 2) Where packed in spray-type containers that cannot be opened
- 3) Where packed in single-use containers that hold one portion of a product consumed in full once after they are opened
- 4) Where packed in containers whose contents are not exposed directly after opening (such as containers for cartridge type, tissue type, bracelet type, patch type, stationary type, and tank type products)
- 5) Where the actual weight of an individual product is at least 15 kilograms
- 6) Where it is difficult to be held in individual containers or to be packed due to the characteristics of the products (such as impregnated plaster air fresheners, candles, etc.)

#### IV. Safety standards for child-resistant packaging

Child-resistant packaging shall include containers\* or packages in compliance with the following standards.

\* Where a separate dedicated container for using the contents of the product is included as a component, such container shall also be included.

1) Safety standards for reclosable child-resistant packages

Public notice by the National Institute of Chemical Safety on the Regulations on Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification; public notice by the Ministry of Trade, Industry and Energy on the Safety Standards for Industrial Products Subject to Child-Resistant Packaging; KS T ISO 8317; 16 CFR 1700; CSA-Z76; and other standards equivalent thereto shall apply.

2) Safety standards for non-reclosable child-resistant packages

Public notice by the National Institute of Chemical Safety on the Regulations on Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification, EN 862, 16 CFR 1700, and other standards equivalent thereto shall apply.

[Attached Table 5]

## Matters to Be Labeled on Consumer Chemical Products Subject to Safety Verification

### I. General matters to be labeled

A person who intends to manufacture or import consumer chemical products subject to safety verification for sale or distribution in the Republic of Korea shall label the following matters on such products along with the name of the relevant matter in accordance with the labeling methods specified in attached Table 6 (e.g. item: cleaners):

1.	Product Category;
2.	Product name;
3.	Purpose (in the case of a bleaching agent, adding the series thereof);
4.	Formulation type;
5.	Date of manufacture;
6.	Expiry date (that of a non-applicable product may be omitted);
7.	Weight, capacity, quantity, number of sheets, and size; <sup>(1)</sup>
8.	Freezing point (limited to windshield washer fluids for automobiles and engine antifreezes);
9.	Acidity of liquids (limited to detergent products and laundry products);
10.	Standard amount of use (that of a non-applicable product may be omitted);
11.	Effect and efficacy (limited to products subject to approval);
12.	Manufacturer, address, and contact details (limited to products manufactured in the Republic of Korea);
13.	Seller, address, and contact details [products subject to reporting are limited to those manufactured in the Republic of Korea by means of original development manufacturing (ODM)Korea by means of original development manufacturing (ODM) <sup>(2)</sup> ];
14.	Name of country of origin and manufacturing company (limited to imported

	products);
15.	Importer, address, and contact details (limited to imported products);
16.	Labeling of products subject or not subject to child-resistant packaging <sup>(1)</sup> ;
17.	Chemical substances used in the product <sup>(1)</sup> ;
18.	Signal words and pictograms <sup>(1)</sup> ;
19.	Method of use (that of a non-applicable product may be omitted);
20.	Precautions for use;
21.	First aid measures;
22.	Mark of safety standards verification <sup>(1)</sup> ;
23.	Report number for verification of compliance with safety standards or approval number for consumer chemical products subject to safety verification <sup>(3)</sup> .

Note (1) The name of each of the relevant matters need not be labeled.

(2) Original Development Manufacturing (ODM) means the method of manufacturing by a person under subparagraph 5 (b) of Article 2.

(3) "Report number for verification of compliance with safety standards" or "approval number for consumer chemical products subject to safety verification" may be abbreviated to "report number" or "approval number".

## II. Specific matters to be labeled by product

In addition to ‘I. General matters to be labeled’, matters to be labeled by product shall be as follows:

### 1. Precautions for use

#### A. Matters to be mandatorily labeled

Where a product falls under the classification set forth in the following Table 1, precautionary statements for use shall be labeled on the product. In addition, in the case of a product subject to approval, precautionary statements for use specified in the approval notice shall be labeled: Provided, That where precautionary statements for use are proved to be not applicable to the relevant product, such statements need not be labeled.

Classification	Precautionary statements for use
Cleaners, Disinfectants <sup>(1)</sup>	<ul style="list-style-type: none"> <li>. Do not mix with other products, as doing so may cause serious harm to the human body.</li> <li>. Do not use this product for any purpose other than those specified on the label.</li> </ul>
Cleaners (limited to products in which hydrochloric acid or sulfuric acid is used: Provided, That the same shall not apply where hydrochloric acid or sulfuric acid is used as an acidity regulator)	<ul style="list-style-type: none"> <li>.When the product is used in a confined space, keep such space sufficiently ventilated.</li> <li>. Wear proper protective equipment, such as gloves and masks.</li> </ul>
Adhesives, Hardening accelerators (limited to where any of such chemical substances as toluene, ethyl acetate,	<ul style="list-style-type: none"> <li>. Do not misuse and abuse the product, such as directly inhaling it.</li> </ul>

Classification	Precautionary statements for use
and methanol is used)	
Deodorizing agents, Bleaching agents	<ul style="list-style-type: none"> <li>. Do not spray directly on humans or animals.</li> </ul>
Engine antifreezes	<ul style="list-style-type: none"> <li>. When storing the product, use the original container or a separate container on which the word 'antifreeze' is written in order to help recognize that the product is an antifreeze, and keep the container tightly closed.</li> <li>. Do not mix ethylene glycol antifreeze with propylene glycol antifreeze because the freezing point can be changed or the quality of the product can be deteriorated.</li> </ul>
Windshield washer fluids for automobiles	<ul style="list-style-type: none"> <li>. Use the product in the indoor circulation mode to prevent an alcohol odor from being infiltrated indoors.</li> <li>. Roll down a window for ventilation for one to two minutes after using the product.</li> </ul>
Ink cartridges and toners	<ul style="list-style-type: none"> <li>. Be careful not to leak the contents of the product when replacing or removing it.</li> <li>. Be careful not to breathe, or have skin contact with, particles, mists, or vapors when the contents of the product are leaked.</li> <li>. Do not clean a toner with a household vacuum cleaner but wipe it with a wet cloth.<sup>(2)</sup></li> </ul>
Air Freshener (Limited to combustible products) Candle (Limited to fragrance use)	<p>(During Use) Be careful when using in a confined space, and do not inhale smoke directly.</p> <ul style="list-style-type: none"> <li>. (After Use) Ensure no remaining embers exist after use, and provide sufficient ventilation.</li> <li>. (Storage) Store in a place away from fire or heat sources.</li> </ul>
Candles (limited to products that	<ul style="list-style-type: none"> <li>. Use a non-flammable candle holder.</li> </ul>

Classification		Precautionary statements for use
do not have their holders)		
Dehumidifying agents		<ul style="list-style-type: none"> <li>. Do not rip or tear off the moisture permeable film.<sup>(3)</sup></li> <li>. Be careful as the desiccant may cause a dangerous exothermic reaction upon contact with water.</li> <li>. Do not take out the moisture absorber that can be dangerous when its contact with water causes exothermic reactions.</li> <li>. If the moisture absorber or absorbed water that is leaked comes in contact with any plant or metal, it can have adverse effects on the growth of the plant or the quality of the metal.</li> <li>. Do not dry the product with fire.</li> <li>. Use only in dedicated containers specifically designed for refillable dehumidifiers.<sup>(6)</sup></li> </ul>
Where the product is used for purposes outside an automobile		<ul style="list-style-type: none"> <li>. Do not use the product inside an automobile.</li> </ul>
Disinfectants <sup>(1)</sup>		<ul style="list-style-type: none"> <li>.Do not spray directly on humans or animals.</li> <li>.Do not use this product for air disinfection, including fogging or high-pressure spray equipment. Use only on surfaces.<sup>(4)</sup></li> <li>.Keep out of reach of children.</li> <li>.Ingestion or contact with eyes or skin may cause serious harm to the human body</li> <li>.When the product is used in a confined space, keep such space sufficiently ventilated.</li> </ul>
Where the product is used for disinfecting a toothbrush		<ul style="list-style-type: none"> <li>. Be sure to rinse a toothbrush after using the product.</li> </ul>
Where the product is designed for use	For general surfaces, For mop-type	<ul style="list-style-type: none"> <li>. Follow the usage instructions and standard dosage exactly as directed.</li> <li>. Avoid direct contact with food or tableware.</li> </ul>

Classification		Precautionary statements for use
with electrolysis-based sterilization devices	floor cleaners	
	For toilet tank use	. Close the toilet lid before flushing.
Where the formulation type of the product is a capsule		. Be careful not to allow children to swallow the product.
Where the formulation type of the product is a liquid		. Do not spray the contents of the product that are put into a sprayer, etc.
Spray-type products using combustible gas		. Check whether there is any spark nearby, spray a certain amount of the product, wait for gas to be dispersed, and then use it again. . Be careful of a possible explosion when the product is exposed to direct sunlight or heat.
Products subject to child-resistant packaging		. Keep the product in a place out of reach of children. . Do not forcibly tear off the lid connected to the container.
Products excluded from those subject to child-resistant packaging under specific conditions <sup>(5)</sup>		. Keep any product not subject to child-resistant packaging in a place out of reach of children.
Products containing substances that can cause allergic reactions as specified in attached Table 6		. Persons with sensitive or damaged skin are required to avoid prolonged contact with the product.
Products using a glass container excluded from those subject to strength tests		. Do not throw or drop the container.
Products fully consumed at one time		. Use the contents of the product immediately after opening it.
Fog fluids for performance		. Wear protective equipment when using the product directly for performance, etc.
Artificial snow spray		. Do not use near open flames or ignite during or after spraying, due to fire risk.

<b>Classification</b>	<b>Precautionary statements for use</b>
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Note (1) Applies to all-purpose products.

(2) Limited to products in powder form.

3) Limited to products with a moisture permeable film, and the relevant matter may be indicated on such film.

(4) Limited to products in spray form.

(5) Limited to products that either do not fall under the category of household storage or use, despite meeting the criteria for child-resistant packaging, or are exempt from child-resistant packaging requirements.

(6) Limited to products with a refillable formulation.

B. Matters recommended to be labeled

Where a product falls under the classification set forth in the following Table 2, an additional precautionary statement for use may be selected for labeling.

**<Table 2> Recommended Precautionary Statements for Use by Product**

<b>Classification</b>	<b>Precautionary statements for use</b>
General matters	<ul style="list-style-type: none"> <li>. Check the matters labeled before using the product.</li> <li>. Use the product in accordance with the methods of use, standard amount of use, etc. as stated on it.</li> <li>. Check the attached document provided separately.<sup>(6)</sup></li> <li>. Keep out of reach of children.</li> </ul>
Matters related to body exposure	<ul style="list-style-type: none"> <li>. Avoid contact of the contents of the product with eyes.</li> <li>. Avoid contact of the contents of the product with eyes or skin.</li> <li>. Do not inhale, intake or drink the product.</li> <li>. When the product is used in a confined space, keep such space sufficiently ventilated.</li> <li>. Do not spray the product to people or animals and in the air as inhalation of a large amount of it is likely to be risky.</li> <li>. Wear proper protective equipment, such as gloves and masks.</li> <li>. Do not spray the product at people or inhale its contents sprayed.</li> <li>. Be careful not to get sprayed droplets in eyes when using the product above eye level.</li> <li>. Ensure no product residue remains on the treated area.</li> </ul>
Matters related to purposes	<ul style="list-style-type: none"> <li>. Do not use the product for purposes other than the intended purposes as stated on the label.</li> <li>. Do not change the container at will for use.</li> <li>. If discoloration or decoloration is likely to occur, test the product on an unnoticeable area with a tiny amount of it for use.</li> </ul>

Classification	Precautionary statements for use
Matters related to fire and explosion	<ul style="list-style-type: none"> <li>. Keep the product away from flame.</li> <li>. Do not expose the product to direct sunlight or heat.</li> <li>. Be careful of a possible fire.</li> </ul>
Matters related to leakage of contents	<ul style="list-style-type: none"> <li>. Do not leave the product fallen because the liquid may be leaked from it.</li> <li>. Do not give a shock to the product, including dropping the container.</li> <li>. Do not use the product left fallen or tilted.</li> <li>. Do not forcibly separate the container from the product or give a strong shock to it.</li> <li>. Keep surroundings clean after using the product to prevent the residue of its contents from being left.</li> <li>. Do not use in the event the container damage or leakage of contents.</li> </ul>
Matters related to keeping and storage	<ul style="list-style-type: none"> <li>. Keep the product in a place away from flame or heat.</li> <li>. Keep the product in the original container because the residue left after use is likely to be misused.</li> <li>. Keep the product in a cool place away from direct sunlight.</li> <li>. Keep the container tightly closed for storage at all times.</li> </ul>
Matters related to the disposal of residues of products such as disinfectants, Insect repellents, algicides, and wood preservatives	<ul style="list-style-type: none"> <li>. Seal the container tightly to prevent leakage or spillage, and if any residue remains after use, dispose of it in a volume-based waste bag.</li> <li>. Do not discharge any remaining residue directly into the environment after use.</li> <li>. Do not reuse the container after use.</li> </ul>
Products that change into a liquid form during use and have a pH of 2.0 or less, or 11.5 or more	<ul style="list-style-type: none"> <li>. Wear appropriate protective gear, such as gloves and a mask.</li> <li>. The product may cause serious injury to the human body during use; be careful to avoid contact with eyes or skin.</li> <li>. Store any residual product out of reach of children.</li> </ul>

Note (7) When the same product is packaged and sold by the box to end users, and

<b>Classification</b>	<b>Precautionary statements for use</b>
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only one attachment is provided inside the packaging, the required labeling information may be displayed separately on the outer surface of the product, and the name of the labeling item may be omitted.

## 2. First aid measures

### A. Matters to be mandatorily labeled

Where a product falls under the classification specified in the following Table 3, statements on first aid measures shall be mandatorily labeled.

**<Table 3> Mandatory Statements on First Aid Measures by Product**

<b>Classification</b>	<b>Statements on first aid measures</b>
Child-resistant packaging	<ul style="list-style-type: none"><li>. If you eat or swallow the contents of the product, take first aid action and consult a doctor immediately.</li><li>. If you need medical attention, show the container of the product or the matters labeled.</li></ul>
Products containing substances that can cause allergic reactions as specified in attached Table 6	<ul style="list-style-type: none"><li>. Receive medical attention if a skin irritation or a rash occurs.</li></ul>

### B. Matters recommended to be labeled

If a product falls under the classification set forth in the following Table 4, an additional statement on first aid measures may be selected for labeling.

**<Table 4> Suggested Statements on First Aid Measures by Product**

<b>Classification</b>	<b>Statements on first aid measures</b>
General matters	<ul style="list-style-type: none"><li>. If you need medical attention, show the container of the product or the matters labeled.</li><li>. If you feel uncomfortable after being exposed to the product, seek help from a medical institution (doctor).</li><li>. If you are directly exposed to the product, wash the exposed area or remove the exposed substance.</li></ul>
Matters related to oral exposure	<ul style="list-style-type: none"><li>. If you eat or swallow the contents of the product, take first aid action and consult a doctor immediately.</li></ul>
Matters related to percutaneous or eye	<ul style="list-style-type: none"><li>. If the product comes in contact with skin, wash the skin with plenty of water and soap.</li></ul>

Classification	Statements on first aid measures
exposure	<ul style="list-style-type: none"> <li>. If the product comes in contact with eyes, wash the eyes immediately.</li> <li>. If the product comes in contact with eyes or skin, wash the eyes or skin with clean water, and if any problem occurs, consult a doctor.</li> </ul>
Matters related to inhalation exposure	<ul style="list-style-type: none"> <li>. If breathing is difficult after inhalation, move to fresh air and keep at rest in a position comfortable for breathing.</li> </ul>

[Attached Table 6]

## Methods for Labeling Consumer Chemical Products Subject to Safety Verification

### I. General labeling methods

#### 1. Common matters on labeling

- A. Labeling shall be in Korean in principle, but where Chinese characters or a foreign language are or is written together with Korean to help consumers' understanding, the size of Korean printing types shall be bigger than that of Chinese characters or a foreign language.
- B. Labeling shall be printed in an indelible ink, inscribed, stamped, or done using other methods, and the labeled matters that are affixed to a product shall be unlikely to be removed.
- C. Labeling shall be done in a color that contrasts with the background color so that it can be easily noticed by consumers: Provided, That the same shall not apply where labeling is inscribed, stamped, or done using other methods to prevent some labeled matters, such as the date of manufacture, from being falsified.
- D. The following labeling methods are recommended to ensure that labeling can deliver to consumers product information that is correct and easily understandable:
  - 1) Labeling the item, the name of a product, and the report number for verification of compliance with the safety standards, and other matters together in braille or using other methods to help visually impaired persons use the product properly;

2) Labeling precautions for use, first aid measures, and other matters with pictograms\* to ensure that the labeled matters are clearly visible and easily understandable;

\* Attached Table 1 of this Public Notice may be referred to label pictograms.

3) Labeling the phrase "See the enclosed attached document" or other phrases, where a separately attached document is enclosed in the product package;

4) Avoiding labeling any designs related to food and cartoon characters on sterilizing and disinfectant products, insect repellent products, and preservative products to prevent children from swallowing such products or suffering from poisoning.

E. Where precautions for use, first aid measures, and other matters are labeled with the pictograms listed in Attached Table 1, a statement related to the relevant pictogram shall be deemed labeled.

## 2. Location of labeling

A. Methods of labeling on outer surface of product

1) The matters specified in attached Table 5 shall be labeled on the surface suitable for labeling of the product's\* outer surface.

\* Where a separate container exclusively used for the contents of a product is provided as its component, including such container.

2) Notwithstanding 1) above, where it is difficult to label the relevant matters on the surface suitable for labeling as its area is small, the matters set forth in Table 1 shall be labeled on such surface and the remaining matters on the attached document.

**<Table 1> Matters to Be Labeled by Area of surface suitable for labeling**

Area of surface suitable for labeling	Matters to be labeled
50 cm <sup>2</sup> ~ 100 cm <sup>2</sup>	<ul style="list-style-type: none"> <li>. Product Category</li> <li>. Product name</li> <li>. Manufacturer and contact details (limited to products manufactured in the Republic of Korea)</li> <li>. Importer and contact details (limited to imported products)</li> <li>. Pictograms</li> <li>. Major substances</li> <li>. Labeling of products subject or not subject to child-resistant packaging</li> <li>. Report number for verification of compliance with safety verification or approval number for consumer chemical products subject to safety verification</li> <li>. Mark of safety standards verification</li> </ul>
Less than 50 cm <sup>2</sup>	<ul style="list-style-type: none"> <li>. Product Category</li> <li>. Product name</li> <li>. Report number for verification of compliance with safety verification or approval number for consumer chemical products subject to safety verification</li> </ul>

**B. Methods of labeling on areas other than outer surface of product**

1) Where matters labeled on the outer surface of a product are not noticeable as they are covered by its package\*, the matters specified in attached Table 5 shall be labeled on the surface suitable for labeling of the product's package: Provided, That methods of use, precautions for use, and first aid measures need not be labeled.

\* Package means a package that is not used to handle a product, such as transportation and storage, but that is designed to protect or cover the outer surface of a product to be shown when sold or distributed to consumers under general conditions.

2) Notwithstanding the main clause of 1) above, where it is difficult to label the relevant matters on the surface suitable for labeling as its area is small, the matters set forth in Table 1 shall be labeled on such surface and the remaining matters on the attached document. Provided, That when the

same product is packaged and sold in boxes, only one copy of the attached document may be provided (limited to cases where the product is distributed to the end user).

- 3) In the case of a product listed in the following, for which labeling on its outer space is impracticable or brings few benefits, the matters specified in attached Table 5 may be labeled on the surface suitable for labeling of the product's package or the attached document: Provided, That where the relevant product has no package, a label, tag, etc. on which matters to be labeled are stated may be attached to the product:
  - a) A solid product which functions on its own;
  - b) An imported product whose commercial value is affected where its outer surface or package is damaged;
  - c) A product that has a risk of causing fire when used due to the combustion of a label attached to the product: A candle and any other product;
  - d) A product manufactured to be installed and used inside an invisible area of a copy machine, an air purifier, or any other device: limited to ink cartridges and toners and preservative-treated filter products.

### 3. Size of printing types

When the matters specified in attached Table 5 are labeled, the size of printing types shall be in accordance with the size of printing types by area of surface suitable for labeling as prescribed in Table 2.

**<Table 2> Size of Printing Types by Area of surface suitable for labeling**

<b>Area of surface suitable for labeling</b>	<b>Size of printing types</b>
At least 200 cm <sup>2</sup>	At least 8 point
Less than 200 cm <sup>2</sup>	At least 6 point

## II. Labeling methods by matter to be labeled

### 1. Product Category

Product Category shall be labeled in a conspicuous manner such as underlining the type of a product classified in attached Table 1, highlighting printing types in bold print, or changing the color of letters (e.g. item: cleaners) (hereinafter referred to as "conspicuous manner"). In such cases, the product category shall be the same as that stated in a certificate of reporting verification of compliance with the safety standards in attached Form 4 of the Enforcement Rule (hereinafter referred to as "certificate of reporting") or a certificate of approving consumer chemical products subject to safety verification in attached Form 7 of the Enforcement Rule (hereinafter referred to as "approval notice").

### 2. Product name

A product name means the unique name given to each product to distinguish it from other products and shall be the same as that stated in the certificate of reporting or the approval notice.

### 3. Purpose

A purpose shall be labeled by product category as classified in attached Table 2 [e.g. purpose: for automobiles (inside automobiles)] and shall be the same as that specified in the certificate of reporting or the approval notice: Provided, That where the product category is a bleaching agent, the series stated in the following Table 1 shall be labeled additionally [e.g. purpose (series): for textiles (sodium percarbonate)].

**<Table 1> Series of Bleaching Agents**

Sodium percarbonate, sodium perborate, hydrogen peroxide, chlorine, etc.
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#### **4. Formulation type**

A formulation type shall be labeled in accordance with the classification specified in <Table 1> Categories of Formulation Type of Consumer Chemical Products Subject to Safety Verification in attached Table 2 (formulation type when used). In such cases, a formulation type shall be the same as that set forth in the certificate of reporting, and if the original formulation type of the product differs from the formulation type when used, the original formulation type of the product may additionally be labeled.: Provided, That in the case of a product subject to approval, not the formulation type stated in the classification mentioned above but that described in the approval notice shall be labeled.

#### **5. Date of Manufacture**

A date of manufacture shall be labeled as "mm-yy", "mm-yyyy", "OO.OO.(mm.yy)", "OOOO.OO.(mm.yyyy)", etc.: Provided, That where the location of labeling the date of manufacture is separately stated, a statement giving information on such location or a phrase such as "Indicated separately" shall be labeled (e.g. date of manufacture: See the upper part of the product). In addition, where it is impracticable to understand the date of manufacture labeled on an imported product as methods of labeling such date are different from those used in the Republic of Korea, an explanation on how to read it as set forth in Table 2 shall be added in a manner that is readable for consumers [e.g. date of manufacture: AU9131 → 9 (2019) 131 (January 31)].

**<Table 2> Examples of Methods of Indicating Date of Manufacture Labeled on Imported Products**

PROD19365 → 19 (2019) 365 (produced on the 365th day of the relevant year)
2019, 365 → manufactured on the 365th day of 2019 (December 31, 2019)
19123130876 → 19 (2019) 12(December) 31 (31st)
19365123404028316 → 19 (2019) 365 (the 365th day of the relevant year)
AU9131 → 9 (2019) 131 (January 31)
9E261 → 9 (2019) E (May) 26 (26th)

**6. Expiry date (that of a non-applicable product may be omitted)**

An expiry date shall be labeled as "by (date)", "mm-yyyy", etc. based on the date of manufacture: Provided, That in the case of a product subject to approval, the expiry date specified in the approval notice shall be labeled.

**7. Weight, capacity, quantity, number of sheets, and size**

A. A weight, capacity, and quantity by product shall be labeled in a legal unit of weight and measurement prescribed in Article 37 of the Enforcement Decree of the Measures Act: Provided, That cartridge-type or filter-type products may be labeled with the number of printable sheets, the size of the product, or other equivalent indication in lieu of the weight, capacity, and quantity. In such cases, the weight, capacity, quantity, number of sheets, and size of the product shall be the same as those described in the certificate of reporting (in cases where a range is reported, a single value within the range entered in the certificate of reporting shall be labeled, and this provision shall apply only when the ingredients and mixing ratio in the product are identical), and in the case of a product subject to approval, a unit used for sale shall be specifically stated based on the matters approved.

B. Where the weight, capacity, quantity, number of sheets, or size of a product is changed (only in cases of reduction), the fact of such change shall be indicated on the outer surface or packaging of the product for a period of at least three months from the date of change. In such cases, a sticker may be used, but it shall be attached so that it does not come off, and it shall be indicated in a manner that allows consumers to easily recognize the change at the time of purchase: Provided, That the following cases may be exempted from such indication.

1) Where the unit price (based on the factory shipment price) has not increased

2) Where the variation rate of weight, capacity, etc. is 5% or less (Example) Weight 00 g (product with changed weight, 00 g → 00 g or decreased by 00 %), Weight 00 g (previous weight 00 g), etc.

**8. Freezing point (limited to windshield washer fluids for automobiles and engine antifreezes)**

A. freezing point shall be labeled based on the ratio of mixing with water and the mixing ratio and may be indicated using a table, graph, etc.

**9. Acidity of liquids (limited to detergent products and laundry products)**

The acidity of a liquid shall be labeled based on the hydrogen ion concentrations (pH) of its undiluted solution [e.g. acidity of liquid: undiluted solution (alkaline)]: Provided, That in the case of a product to be used in the standard amount, the pH may be labeled based on its undiluted solution and standard amount of use [e.g. acidity of liquid: undiluted solution (alkaline) and standard

amount of use (alkalescent)]. In addition, where it is ambiguous to determine the acidity of a liquid, all the relevant acidities shall be labeled and the pH range values may be added [e.g. acidity of liquid: undiluted solution (neutral, alkalescent, pH 7.0 ~ 10.0)], and “Oil” or other words may be labeled on a product that does not dissolve in water.

**<Table 3> Labeling Statements on Acidity of Liquids Based on Hydrogen Ion Concentrations (pH)**

Hydrogen ion concentrations (pH)	Acidity of liquids
Exceeding 11.0	Alkaline
Exceeding 8.0 ~ not more than 11.0	Alkalescent
Not less than 6.0 ~ not more than 8.0	Neutral
Not less than 3.0 ~ less than 8.0	Subacid
Less than 3.0	Acid

**10. Standard amount of use (that of a non-applicable product may be omitted)**

The standard amount of use, which is a proper amount of use that allows a product to function effectively when it is used, shall be labeled in a legal unit of weight and measurement prescribed in Article 37 of the Enforcement Decree of the Measures Act. In the case of a concentrated product to be diluted for use, the standard amount of use determined based on a dilution ratio shall be labeled: Provided, That in the case of a product subject to approval, the amount stated in the approval notice shall be labeled.

**11. Effect and efficacy (limited to products subject to approval)**

The effect and efficacy of a product subject to approval shall be the same as those stated in the approval notice.

**12. Manufacturer, address, and contact details (limited to products manufactured in the Republic of Korea)**

The trade name or name, address, and contact details of the person who manufactures a product shall be labeled (e.g. manufacturer, address, and contact details: Seoul Corp., Seoul 000, 02-000-0000).

**13. Seller, address, and contact details (limited to products manufactured in the Republic of Korea by means of original development manufacturing)**

The trade name or name, address, and contact details of the person who orders and sells an ODM product shall be labeled (e.g. seller, address, and contact details: Seoul Corp, Seoul 000, 02-000-0000).

**14. Name of country of origin and manufacturing company (limited to imported products)**

The country in which an imported product is manufactured and the trade name shall be labeled (e.g. the name of country of origin and manufacturing company: U.S.A., American & Korean): Provided, That where a company which distributes the raw materials of reusable ink cartridges and toners is issued a certificate of reporting verification of compliance with the safety standards and provides a person who re-manufactures or recycles reusable ink cartridges and toners, the trade name of the relevant company need not be labeled.

**15. Importer, address, and contact details (limited to imported products)**

The trade name or name, address, and contact details of the person who imports a product shall be labeled (e.g. importer, address, and contact details: Korea Corp., Seoul 000, 02-000-0000).

**16. Labeling of products subject or not subject to child-resistant packaging**

**A. In the case of a product subject to child-resistant packaging**

A phrase indicating that child-resistant packaging is applied shall be labeled on the surface of the product suitable for display that is imprinted with a trademark, logo, etc. and is usually shown to consumers when they purchase the product (hereinafter referred to as “principal surface suitable for labeling”), and may be omitted in cases where the product is exempted from such application. Such phrase shall, as described in <Figure 1>, be in red letters (gothic type) on a white background and placed in the center of a red frame sufficiently wide to be clearly visible (at least 0.5 mm in line thickness). In such cases, the shape of the design shall be an upright rectangle, the size of printing types shall be at least 6 point, and the ratio of width to height of the rectangle and the thickness of the frame line may be adjusted depending on the size of the surface suitable for labeling.



**[Figure 1] Labeling Design of Child-Resistant Packaging**

**B. In the case of a product not subject to child-resistant packaging**

- 1) A person who intends to sell or distribute a product that falls under I. Standards for Items Subject to Child-resistant Packaging or II. Standards for Substances Subject to Child-resistant Packaging in Attached Table 4 for purposes other than household purposes shall label on its principal surface suitable for labeling the expression “Not for household purposes”, specific places for use (e.g. “For automobile repair shops” for windshield washer fluids for automobiles, and “For industrial use” for instant adhesives), or other similar expressions.
- 2) Where child-resistant packaging is applied to a product that is not subject to child-resistant packaging, such labeling may be made in accordance with product category (a) and subparagraph 19 (Directions for use).

**17. Chemical substances used in products**

The name of a substance (1) that is a major substance, preservative, substance causing an allergic reaction, surfactant, or any other substance used in a product shall be labeled in accordance with the following categories: Provided, That where a chemical substance used in the product falls into two categories among major substances, preservatives, and surfactants, only the category representing such chemical substance may be labeled.

- A. Major substances (e.g. major substances: paraffin wax and polydimethylsiloxane)

The name of a substance used in a product that falls under the following categories shall be labeled: Provided, That in the case of an ink cartridge and toner, only the substance falling under 1) may be labeled. Where the relevant substance is a

fragrance material, the name shall be labeled as “fragrance material (name of substance)” with its functions added, and in the case of a mixture consisting of at least two substances, the name may be labeled as "fragrance material (name of representative substance)", etc. [e.g. major substances: fragrance materials (d-limonene, etc.)]:

- 1) A representative substance that constitutes the largest portion of a product (the largest content, etc.): Provided, That where the relevant substance is water (purified water), the name of a substance that constitutes the second largest portion of the product shall be added;
- 2) A representative substance that helps a product perform its major functions.

B. Preservatives (e.g. preservative: ethanol)

Where biocides defined in subparagraph 7 of Article 3 of the Act are used in a product for preservation, the names of all the relevant substances shall be labeled.

C. Substances causing allergic reactions (e.g. substance causing allergic reaction: amyl cinnamal) Where substances causing allergic reactions listed in Table 4 are used in a product in an amount of at least 0.01%, the names of all the relevant substances shall be labeled, and even when they are used in an amount of less than 0.01%, the names of the relevant substances may be labeled.

\* The name of a substance causing an allergic reaction may be abbreviated to “allergic substance”.

**<Table 4> List of Substances Causing Allergic Reactions**

1. Amyl cinnamal (CAS No. 122-40-7)
2. Benzyl alcohol (CAS No. 100-51-6)
3. Cinnamyl alcohol (CAS No. 104-54-1)
4. Citral (CAS No. 5392-40-5)
5. Eugenol (CAS No. 97-53-0)
6. Hydroxycitronellal (CAS No. 107-75-5)
7. Isoeugenol (CAS No. 97-54-1)
8. Amylcinnamyl alcohol (CAS No. 101-85-9)
9. Benzyl salicylate (CAS No. 118-58-1)
10. Cinnamal (CAS No. 104-55-2)
11. Coumarin (CAS No. 91-64-5)
12. Geraniol (CAS No. 106-24-1)
13. 4-Methoxybenzyl alcohol (CAS No. 105-13-5)
14. Benzyl cinnamate (CAS No. 103-41-3)
15. Farnesol (CAS No. 4602-84-0)
16. Butylphenyl methylpropional (CAS No. 80-54-6)
17. Linalool (CAS No. 78-70-6)
18. Benzyl benzoate (CAS No. 120-51-4)
19. Citronellol (CAS No. 106-22-9)
20. Hexyl cinnamal (CAS No. 101-86-0)
21. Limonene (CAS No. 138-86-3, 5989-27-5, 5989-54-8)
22. Methyl 2-Octynoate (CAS No. 111-12-6)
23. Alpha-Isomethyl Ionone (CAS No. 127-51-5)
24. Hydroxyisohexyl 3-cyclohexene carboxaldehyde (CAS No. 31906-04-4)
25. Oakmoss extract (CAS No. 90028-68-5)<sup>(1)</sup>
26. Treemoss extract (CAS No. 90028-67-4)<sup>(1)</sup>

Note (1) Artonal (CAS No. 526-37-4) and chloratranol (CAS No. 57074-21-2) are part of the ingredients of oakmoss extract and treemoss extract.

D. Surfactants [e.g. surfactants: alkylbenzene sulfonate (negative ion)]

All the substances used as surfactants in a product and their series specified in Table 5 shall be labeled as “name of substance (series)”.

**<Table 5> Series of Surfactants**

Negative ion, nonion, amphoteric ion, cation, and others

E. Fluorescent brighteners (limited to cleaners, laundry detergents, and bleaches) [e.g. fluorescent brightener 2,2'-(1,2-ethenediyl-di-4,1-phenylene)bisbenzoxazole] Where fluorescent brighteners are used in a product, the names of all such substances shall be labeled.

F. Other substances (e.g. other substances: sodium hydroxide and isopropylbenzene)

Where any of the following substances is used in a product, the name of the relevant substance shall be labeled. Where the substance is used as an acidity regulator, its functions may be added [e.g. other substances: sulfuric acid (acid regulator)]: Provided, That the same shall not apply where the name of the substance is already labeled in accordance with any of the categories for major substances, preservatives, substances causing allergic reactions, and surfactants:

1) A substance falling under subparagraphs 6 through 9 of Article 2 of the Act on Registration and Evaluation of Chemical Substances (including where the content of such substance does not reach a level specified in the standards for designating mixtures under the Public Notice of Designation of Acute Human Health Hazard Substances, Chronic Human Health Hazard Substances, and Ecological Hazard Substances of the National Institute of Chemical Safety, or the Designation of Restricted and Prohibited Substances of the Ministry of Climate, Energy and Environment, or a level set forth in the standards for classifying mixtures under the Regulations on Classification and Labeling of Chemical Substances of the National Institute of Chemical Safety)<sup>(2)</sup>;

2) A substance subject to intensive control defined in

subparagraph 10-2 of Article 2 of the Act on Registration and Evaluation of Chemical Substances<sup>(2)</sup>;

- 3) An active substance under subparagraph 7 of Article 3 of the Act;
- 4) A nanomaterial intentionally contained in a product prescribed in Article 28 (2) 3 of the Act;
- 5) All substances used in dyes for tattoos<sup>(3)</sup>: Provided, That the names of the following substances may be omitted:
  - a) A substance that has no harmful effect on the human body as only a tiny amount of it is contained;
  - b) A substance that does not remain in an end product as it was removed in the process of production;
  - c) An incidental substance that is contained in materials themselves, such as a stabilizer, in an amount smaller than the amount that enables such substance to work.

Note (1) Methods of stating names of chemical substances

- ① The name of a substance shall be stated as prescribed by the Act or the Public Notice: Provided, That in the case of a product subject to approval, the name specified in the approval notice may be indicated.
- ② The name of a substance that is not prescribed by the Act or the Public Notice may be stated in accordance with the name registered in the “Chemicals Information System of the National Institute of Chemical Safety(kreach.me.go.kr)”, given by the International Union of Pure and Applied Chemistry (IUPAC), or assigned by Chemical Abstracts (CA), or such name may be replaced with the common name used in every day life.

Note (2) Methods of labeling substances newly designated

- ① Where a substance is designated after verification of the safety standards is reported, the labeling of such substance

may be omitted during period of validity of the relevant verification.

② Where a substance is newly designated within six months on or before the date period of validity of verification expires, among products for which period of validity of verification is renewed or reported, the labeling of such substance may be omitted for the renewed valid term of verification.

Note (3) Methods of labeling substances used in dyes for tattoos

- ① A substance, a large amount of which is used for manufacturing dyes for tattoos, shall be labeled first: Provided, That a substance used in an amount of not more than 1 % may be labeled regardless of whether its amount is large or small.
- ② In the case of a mixed raw material, the name of each mixed substance shall be labeled.
- ③ In the case of a substance used for adjusting a hydrogen ion concentration (pH), the product of a neutralization reaction, instead of such substance, may labeled.

## 18. Signal words and pictograms

Where a substance falling under subparagraphs 6 through 9 of Article 2 of the Act on Registration and Evaluation of Chemical Substances is used in a product with a content at or above the designation standards for mixtures specified in the Public Notice of Designation of Acute/Chronic Human Health Hazard Substances, and Ecological Hazard Substances (National Institute of Chemical Safety) or the Designation of Restricted and Prohibited Substances (Ministry of Climate, Energy and Environment), a signal word and pictogram must be labeled according to the classification standards for mixtures in the Regulations on Classification and Labeling of Chemical Substances. However, this does not apply if the substance is used as an acidity regulator. The signal word, as

defined in Article 10 of the same Regulations, must be displayed conspicuously. The pictogram, as defined in Article 9 of the same Regulations, must have a minimum area of 1 cm<sup>2</sup>.

#### **19. Method of use (that of a non-applicable product may be omitted)**

A product subject to child-resistant packaging shall be labeled with the statement "Method of opening the container required to use child-resistant packaging (including the method of closing the container, if necessary)' in a conspicuous manner. In such cases, a statement, figure, etc. concerning such method may be labeled not on the surface suitable for labeling but on the outer cover, etc. of such container. In the case of a product subject to approval, the method of use stated in the approval notice shall be labeled, and in the case of a consumer chemical product subject to safety verification, it may be labeled where consumers are required to be well-informed before use as a specific method of use is applied to the product.

#### **20. Precautions for use**

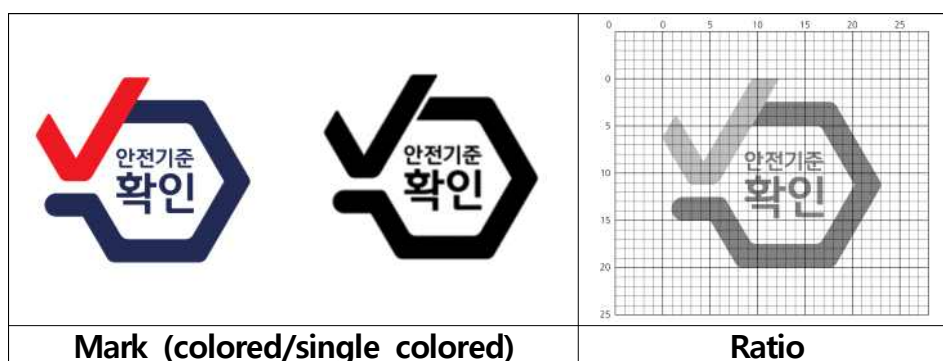
Precautionary statements for use specified in II. Specific matters to be labeled by product of attached Table 5 shall be labeled in a conspicuous manner for the precautionary statements that are required to be labeled, and the recommended precautionary statements may also be labeled in a conspicuous manner: Provided, That duplicate precautionary statements for use may be omitted or labeled in combination with similar statements, and, where necessary, they may be changed to proper terms or detailed information, etc. on the safe use of a product may be added for labeling. In the case of a product subject to approval, the precautionary statement for use stated in the approval notice shall be labeled.

## 21. First aid measures

Statements on first aid measures specified in II. Specific matters to be labeled by product of attached Table 5 shall be labeled in a conspicuous manner for the statements that are required to be labeled, and the recommended statements may also be labeled in a conspicuous manner: Provided, That duplicate statements on first aid measures may be omitted or labeled in combination with similar statements, and, where necessary, they may be changed to proper terms or detailed information, etc. on first aid measures may be added for labeling.

## 22. Mark of safety standards verification

A mark of safety standards verification indicating that a product complies with the safety standards shall be labeled as specified in Figure 2. In such cases, the mark may be colored or single colored for labeling, and its size shall be adjusted depending on the size of the surface suitable for labeling but the ratio of its width to height shall be fixed and maintained: Provided, That the same shall not apply to products subject to approval.



[Figure 2] Design of Mark of Safety Standards Verification

23. Report number for verification of compliance with safety standards or approval number for consumer chemical product subject to safety verification

A report number for verification of compliance with the safety standards shall be labeled as stated in the certificate of reporting and an approval number for a consumer chemical product subject to safety verification as specified in the approval notice in a conspicuous manner (e. g. report number: 0000).

[Annex 1]

### Example of Methods of Labeling Pictograms









An Example of Methods of Labeling Pictograms is a reference material that provides information on how to label statements on precautions for use, first aid measures, etc. with pictograms to help consumers intuitively understand such statements: Provided, That where any design of a pictogram described in the following Table is used, the following shall be complied with to prevent any problem related to intellectual property rights from occurring:






1. “©A.I.S.E.” shall be labeled as specified in the following Figure and the relevant web address ([www.cleanright.eu](http://www.cleanright.eu)) may be added;
2. A pictogram shall be labeled on the outer surface, package, etc. of a product as set forth in attached Table 6 and shall not be used to advertise the brand, trademark, etc. of the product;
3. A dark color, instead of black, may be used in pictograms but the mark ‘X’ shall be labeled in red at all times, and the size of each pictogram shall be at least 1 cm<sup>2</sup>;
4. A pictogram shall be labeled only with the statements specified in the following Table, and any statement not prescribed therein shall not be used with it.



<Figure> Example of Labeling Pictograms

**<Table> Design of Pictograms by Statement on Matters to Be Labeled**

Pictograms	Matters to be labeled	Related statements
	Precautions for use	Keep the product in a place out of reach of children.
	Precautions for use	Avoid contact of the contents of the product with eyes.
	First aid measures	If the product comes in contact with eyes, wash the eyes immediately. If the product comes in contact with eyes, wash the eyes with clean water, and if any problem occurs, consult a doctor.
	First aid measures	If the product comes in contact with skin, wash the skin with plenty of water and soap.
	Precautions for use	Avoid contact of the contents of the product with eyes or skin. Wear proper protective equipment, such as gloves and masks.
	First aid measures	Do not swallow. If the product is swallowed, seek medical advice.
	Precautions for use	Keep the product in the original container because the residue left after use is likely to be misused.
	Precautions for use	When the product is used in a confined space, keep such space sufficiently ventilated.
	Precautions for use	. Keep the container tightly closed for storage at all times.

Pictograms	Matters to be labeled	Related statements
	Precautions for use	Do not mix with other products.
	Precautions for use	Handle with dry hands.
	Precautions for use	Close the package tightly.
	Precautions for use	Do not cut, pierce, or break.
	Precautions for use	Do not tear apart attached capsules.

Note (1) The pictogram shall be displayed together with the related statements.


## Example of Labeling Design of Consumer Chemical Products Subject to Safety Verification

1. Where labeling is on the outer surface of a product or the surface suitable for labeling of its package

<p style="text-align: center;">&lt;Principal surface suitable for labeling &gt;</p> <div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 20px auto; color: red;">             Child-resistant packaging         </div>	<div style="display: flex; align-items: center;"> <div> <p><b>Matters to be labeled on consumer chemical products subject to safety verification</b></p> </div> </div> <p>Report number: <b>0000</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Product Category:</td> <td style="width: 50%;">Product name:</td> </tr> <tr> <td>Purpose:</td> <td>Formulation type:</td> </tr> <tr> <td>Date of manufacture:</td> <td>Expiry date:</td> </tr> <tr> <td>Freezing point:</td> <td>Weight, capacity, and number of sheets:</td> </tr> <tr> <td>Acidity of liquids:</td> <td>Standard amount of use:</td> </tr> </table> <p>Manufacturer, address, and contact details:              Seller, address, and contact details:              Name of country of origin and manufacturing company:              Importer, address, and contact details:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Substances used</td> <td style="width: 30%; text-align: right;"><b>Signal words</b></td> </tr> <tr> <td>Major substances:</td> <td></td> </tr> <tr> <td>Preservatives:</td> <td></td> </tr> <tr> <td>Substances causing allergic reactions:</td> <td style="text-align: right;">Pictograms</td> </tr> <tr> <td>Surfactants:</td> <td></td> </tr> <tr> <td>Other substances:</td> <td></td> </tr> </table> <p>Method of use              ①              Precautions for use              ①              First aid measures              ①</p>	Product Category:	Product name:	Purpose:	Formulation type:	Date of manufacture:	Expiry date:	Freezing point:	Weight, capacity, and number of sheets:	Acidity of liquids:	Standard amount of use:	Substances used	<b>Signal words</b>	Major substances:		Preservatives:		Substances causing allergic reactions:	Pictograms	Surfactants:		Other substances:	
Product Category:	Product name:																						
Purpose:	Formulation type:																						
Date of manufacture:	Expiry date:																						
Freezing point:	Weight, capacity, and number of sheets:																						
Acidity of liquids:	Standard amount of use:																						
Substances used	<b>Signal words</b>																						
Major substances:																							
Preservatives:																							
Substances causing allergic reactions:	Pictograms																						
Surfactants:																							
Other substances:																							

\* A principal surface suitable for labeling means a surface that is imprinted with a trademark, logo, etc. and is usually shown to customers when they purchase the product.

2. Where labeling is on the outer surface of a product whose surface suitable for labeling is not less than 50 cm<sup>2</sup> but not more than 100 cm<sup>2</sup> or on the surface suitable for labeling of its package

<p>&lt;Principal surface suitable for labeling&gt;</p> <div style="border: 1px solid red; padding: 2px; width: fit-content; margin: 10px auto;"> <p>Child-resistant packaging</p> </div>	<div style="display: flex; align-items: center;">  <div> <p><b>Matters to be labeled on consumer chemical products subject to safety verification</b></p> </div> </div> <p>Report number: <b>0000</b></p> <p>Product Category: _____</p> <p>Product name: _____ Pictograms</p> <p>Major substances: _____</p> <p>Manufacturer and contact details: _____</p> <p>Importer and contact details: _____</p>
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3. Where labeling is on the outer surface of a product whose surface suitable for labeling is less than 50 cm<sup>2</sup> or on the surface suitable for labeling of its package

Product Category: \_\_\_\_\_

Product name: \_\_\_\_\_

Report number: **0000**

[Attached Table 7]

Verification of Compliance with the Safety Standards and  
Scope and Methods of Preparing Products and Documents to  
be Submitted for Reporting

1. The scope of products to be submitted for an application for verification of compliance with the safety standards

"Such product" to be submitted to a testing and inspection institution pursuant to Article 10 (1) of the Act and Article 5 (1) of the Enforcement Decree of the same Act means any of the following products:

- A. A finished product whose manufacturing process is completed. In such cases, labeling matters may be omitted on the container or package of the finished product: Provided, That no prototype, etc. before the finished product phase falls under the finished product.
- B. A DIY product in the form of being directly manufactured by consumers(1): Provided, That if the product is manufactured by mixing at least two raw materials, the composition ratio of each substance shall be written in ingredients and mixing ratio of product in Form 2. In such cases, it includes the case where a new product is manufactured by mixing products for which verification of compliance with the safety standards has been obtained.

Note (1) A product that enables consumers to make products which they want to make, which is an abbreviation of do-it-yourself

- C. A raw material supplied by a domestic manufacturer or importer of raw materials, in case of refillable inks or toners.

2. The scope and methods of preparing documents to be submitted

A. Detailed scope and methods of preparing each document to be submitted to a testing and inspection institution to verify whether the document complies with the safety standards pursuant to Article 10 (1) of the Act and Article 5 (1) of the Enforcement Rule of the same Act shall be as prescribed in the following Table 1. In such cases, a document with its own Form shall be prepared by the method of preparation prescribed in each Form.

**<Table 1> The Scope and Methods of Preparing Documents to be Submitted for Verification**

<b>Documents to be Submitted</b>	<b>The scope and methods of preparation</b>	<b>Form</b>
Documents concerning product information, such as photographs and description of products	<ul style="list-style-type: none"> <li>○ The front and back of the photograph of products shall be taken separately and the whole shape of products shall be exposed.</li> <li>○ Purpose of products (including additional function), main users, space or subjects to use, methods of use, cautions, etc. shall be written in description of products.</li> </ul>	Product specification for verifying compliance with the safety standards in Form 1
Documents concerning ingredients, mixing ratio, and purpose of use of the chemicals determined and publicly announced by the Minister of Environment among substances in the product	<ul style="list-style-type: none"> <li>○ Materials determined and publicly announced by the Minister of Environment means the following materials: Provided, That no material falling under paragraph (2) and (3) shall be described in the range of contents due to trade secret.</li> <li>(1) Main substances and preservatives among chemicals used in products under labeling matters as specified in Table 5</li> <li>(2) Substances falling under the safe standards for chemicals by product category as specified in Table 2</li> <li>(3) Substances falling under the application</li> </ul>	Ingredients and mixing ratio of products for verifying compliance with the safety standards in Form 2

Documents to be Submitted	The scope and methods of preparation	Form
	<p>standards for child-resistant packaging as specified in Table 4</p> <ul style="list-style-type: none"> <li>○ Only where substances determined and publicly announced by the Minister of Environment are contained in the products, mixing ratio, etc. by the relevant substance shall be described in Form 2.</li> </ul>	
	<ul style="list-style-type: none"> <li>○ Documents necessary to verify whether it contains prohibited substances prescribed in the safety standards for chemicals by product category as specified in Table 2 shall be as follows. The same shall be limited to cases where no application for the testing of verification compliance with the safety standards for prohibited substances is filed with a testing and inspection institution: <ul style="list-style-type: none"> <li>(1) A copy of a test report verifying that no prohibited substances are contained in the relevant product by a testing and inspection institution designated pursuant to Article 41 (1) of the Act, with respect to prohibited substances designated by product category</li> <li>(2) Form 3 guaranteeing that no prohibited substances designated by product category are contained in the product, where it fails to submit the test report under paragraph (1)</li> </ul> </li> <li>○ Documents necessary to verify that no substances have been used other than substances by which a test for verification of compliance with the safety standards is conducted among substances whose standards for content of using substances in the product are presented as specified in Form 2, shall be an affirmation document of non-use of chemicals in</li> </ul>	<p>Affirmation document of non-content and non-use of chemical in Form 3</p>

Documents to be Submitted	The scope and methods of preparation	Form
	<p>Form 3.</p> <ul style="list-style-type: none"> <li>○ Documents necessary to verify that no substances presented in the standards for substance subject to child-resistant packaging as specified in Form 4, where a product is not subject to child-resistant packaging, shall be an affirmation document of non-use of chemicals in Form 3.</li> <li>○ Where it is intended to use a product for which verification of compliance with the safety standards has been obtained as a component of a DIY product, Form 3 may be omitted.</li> <li>○ Where it is intended to re-request other testing and inspection institution to test and inspect a product for which verification of non-compliance with the safety standards has been obtained, the copy of a report on result of verification of consumer chemical products subject to safety verification issued by the original testing and inspection institution shall be attached to Form 2.</li> </ul>	
Documents evidencing that a container has passed the inspection pursuant to Article 17 of the High-Pressure Gas Safety Control Act (limited to a spray-type product using high-pressure gas)	<ul style="list-style-type: none"> <li>○ One copy of a certificate of passing technical treatment examination issued by the Korea Gas Safety Corporation or one copy of KC mark</li> </ul>	
Documents evidencing that the	One copy of the test report pursuant to the Operational Guidelines for the Electrical	

<b>Documents to be Submitted</b>	<b>The scope and methods of preparation</b>	<b>Form</b>
<p>product has passed the electrical appliance safety verification (KC) pursuant to Article 15 of the Electrical Appliances and Household Products Safety Control Act (limited to products for electrolytic sterilizers)</p>	<p>Appliances and Household Products Safety Control Act or one copy of the KC mark</p>	
<p>Documents evidencing that it complies with the safety standards for a child-resistant container or package pursuant to Article 9 (2) 3 of the Act (limited to a product for which a child-resistant container or package shall be used)</p>	<ul style="list-style-type: none"> <li>○ One copy of certificate evidencing that it complies with the safety standards prescribed in "IV. Self Safety Standards of Child-Resistant Packaging" prescribed in the Safety Standards of Child-Resistant Packaging in Form 4</li> </ul>	<p>Application for verification of child-resistant packaging in Form 7 (Certificate of verification of child-resistant packaging)</p>

B. Specific scope and methods of preparation by document to be submitted for reporting to the president of the Korea Environmental Industry and Technology Institute after obtaining verification of compliance with the safety standards from a testing and inspection institution pursuant to Article 10 (4) of the Act and Article 5 (4) of the Enforcement Rule of the same Act shall be as prescribed in the following Table 2. In such cases, a document with its own Form shall be prepared by the method of preparation prescribed in each Form.

**<Table 2> The Scope and Methods of Preparing Documents to Be Submitted for Reporting**

<b>Documents to be Submitted</b>	<b>The scope and methods of preparation</b>	<b>Form</b>
Documents concerning product information, such as photographs and description of products	<ul style="list-style-type: none"> <li>○ The front and back of the photograph of products shall be taken separately and the whole shape of products shall be exposed.</li> <li>○ Weight, capacity, quantity, number of sheets, and size may be indicated as a range (minimum to maximum).</li> <li>○ Where there is a derivative product other than a representative product, documents evidencing that a product is the derivative product other than product information, such as the derivative product name and photographs, shall be attached to Form 4: Provided, That with respect to the derivative product whose materials, shape, etc. of a container are different from the representative product, one copy of test report verifying the compliance with the safety standards under Table 3 shall be attached to the document evidencing that the product is the derivative product.</li> <li>○ Where any product is supplied to each</li> </ul>	Product specification subject to reporting in Form 4

Documents to be Submitted	The scope and methods of preparation	Form
	<p>person placing an order by a person under subparagraph 5 (b) of Article 2 pursuant to Article 5 (7), documents evidencing that the same kind of ODM products are supplied to several persons placing an order other than product information, such as the product name and photographs by the person placing an order (including the name of a person placing an order or trade name, address and contact information, and one copy of supply contract) shall be attached to Form 4.</p>	
<p>Documents concerning ingredients, mixing ratio, and purpose of use of all substances in the product</p>	<ul style="list-style-type: none"> <li>○ A substance means any individual substance that is possible to be verified in the product containing impurities, non-chemicals, chemicals, etc. and a mixed substance that is intentionally used shall be described by identifying the entire components. However, where it is impossible to recognize a substance that is unintentionally generated, it may be omitted.</li> <li>○ With respect to a mixed substance or a substance without its registry number, materials that may identify material information, such as a material safety data sheet (MSDS) under Article 41 of the Occupational Safety and Health Act or a safety data of materials recognized both home and abroad, a safety data sheet (SDS) of products, information on materials provided by the manufacturer of a product or substance, shall be attached to the documents. However, if information on the material has not been created or exists, the name of relevant material and information on the manufacturer of materials shall be attached to the documents separately.</li> </ul>	<p>Ingredients and mixing ratio of all substances in a product in Form 5</p>

Documents to be Submitted	The scope and methods of preparation	Form
	<ul style="list-style-type: none"> <li>○ In order to compare Form 5 and information on the material submitted to the testing and inspection institution, Form 2 shall be attached to the documents.</li> <li>○ Where an overseas manufacturer of imported products refuses to provide an importer with Form 5 due to trade secret, the overseas manufacturer may prepare and submit the Form to the Korea Environmental Industry and Technology Institute.</li> </ul>	
<p>A labeling sample of consumer chemical products subject to safety verification indicating the matters in the subparagraphs of Article 10 (6) of the Act</p>	<ul style="list-style-type: none"> <li>○ A labeling sample shall be submitted as a file in hwp or pdf format in compliance with the labeling standards under Article 6. However, a report number shall be left blank.</li> <li>○ Where reporting a derivative product other than a representative product or a product is supplied to each person placing an order by a person under subparagraph 5 (b) of Article 2, a labeling sample by a product shall be prepared and submitted.</li> </ul>	

[Attached Table 8]

Methods for Assigning Report Numbers for Consumer  
Chemical Products Subject to Safety Verification

1. Composition of Report Numbers

(1)	(2)	(3)			(4)			(5)			
<b>A</b>	<b>A</b>	<b>1</b>	<b>9</b>	-	<b>0</b>	<b>1</b>	-	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

2. Methods for assigning report numbers

A. In the column (1), write down the classification code(s) for the testing and inspection institution(s) verified to comply with the safety standards:

Name(s) of the testing and analysis institution(s)	Code	Name(s) of the testing and analysis institution(s)	Code
Korea Environmental Industry & Technology Institute	A	Korea Apparel Testing & Research Institute	E
Korea Environment Corporation	B	Korea Testing & Research Institute	F
Korea Conformity Laboratories	C	FITI Testing & Research Institute	G
Korea Testing Certification Institute	D	KOTTI Testing & Research Institute	H

B. In the column (2), write down the code(s) that indicate(s) whether or not a product is required to use child-resistant packaging:

Item	Code	Item	Code
Required	A	Not required	B

C. In the column (3), write down the last two digits of the year in which an initial report is filed to obtain verification as to whether a product meets the safety standards.

D. In the column (4), write down the item code(s) of consumer chemical product(s) subject to safety verification:

Name of item	Code	Name of item	Code	Name of item	Code
Cleaners	01	Windshield washer fluids for automobiles	16	Fog fluid for performance	31
Remover	02	Engine antifreezes	17	Lubricants	32
Laundry detergents	03	Ink cartridges and toners	18	Finish agents	33
Bleaching agents	04	Adhesives for beauty	19	Hardeners	34
Fabric softeners	05	Tattoo inks	20	Hardening accelerators	35
Gloss coatings	06	Disinfectants	21	Cleaners/Brightener for Sporting goods	36
Special purpose coatings	07	Algicide	22	-	
Anti-rust additives	08	Insect repellents	23		
Ironing auxiliaries	09	Wood preservatives	24		
Adhesives	10	Preservative-treated filter product	25		
Gap and crack fillers	11	Candle	26		
Air fresheners	12	Dehumidifying agent	27		
Deodorizing agents	13	Artificial snow spray	28		
Dye agents	14	Red seal ink pads	29		
Colorant painting agents	15	Correction fluids and tapes	30		

- E. In the column (5), sequentially write down the four digits of a serial number according to changes to items (1) through (4).
  
- F. A product that has obtained confirmation of conformity with the safety standards again before the expiration date of the validity period pursuant to Article 10 (3) of the Act, and has filed a notification pursuant to Article 10 (4) of the Act (the codes in subparagraphs (a) and (b) shall be identical), shall retain the same notification number without change.

<b>Product Specification for Verifying Compliance with the Safety Standards</b>	
Product photo	Product manual(s)
<Front>	<p>1. Product characteristics</p> <p>1. Purpose of use</p> <ul style="list-style-type: none"> <li>- Main user</li> <li>- Space or subjects to use</li> <li>- Additional functions</li> </ul> <p>2. How to use</p> <p>3. Caution (general or in use)</p> <p>4. Others</p> <p>※ Since a product manual is different for each item and each product characteristic, it is recommended that the company prepare the product manual autonomously but in the order of the above items, if possible. Also, matters to be notified to provide consumer information shall be included in the product manual.</p>
<Back>	

210mm×297mm[woodfree paper(80g/m<sup>2</sup>) or medium quality paper(80g/m<sup>2</sup>)]

<b>Ingredients and Mixing Ratio of Products for Verifying Compliance with the Safety Standards</b>					
(1) Classification	(2) Ingredient name	Registry number (CAS No, etc.)	(3) Mixing ratio (%)	(4) Purpose (Function)	Remarks
Main substances (maximum content)					
Main substances (major functions)					
Preservatives					
Content-restricted substances					
Substances subject to children-resistant packaging					
Trade name :					
Representative : (signature or seal)					
Document attached	1. One copy of a report on result of verification of consumer chemical products subject to safety verification in Form 2 of the Enforcement Rule (limited to cases where a product for which verification of non-compliance with the safety standards has been obtained is requested to another testing and inspection institution)				

#### How to complete the form

- (1) Classification : Each item shall be classified and prepared as follows:
- Main substances : Indicate substances that account for a significant portion of a product (maximum content, etc.) and express the main function of the product. However, if the maximum content is water (purified water), substances that consist of the next large portion shall be additionally indicated
  - ※ If main substances are aromatic mixed substances (e.g., air freshener), the substance name may be stated as "aromatic essence"
  - Preservatives : Active substances used for preserving raw materials of a product and the product itself
  - Content-restricted substances : Substances that fall under the content-restricted substances by the relevant item under Table 2
  - Substances subject to children-resistant packaging : Substances for which children-resistant packaging is applied, if a product contains such substances pursuant to Table 4
- (2) Ingredient name: Indicate the substance name prescribed by the Act or the public notice. The material name not prescribed by the Act or the public notice may be stated based on the substance name, the International Union of Pure and Applied Chemistry (IUPAC) name, or the CA name (Chemical Abstracts) listed in the National Chemicals Information System of the National Institute of Chemical Safety(kreach.me.go.kr), or be stated in the trivial name.
- (3) Mixing ratio : In cases of main substances (function-expressing substances) and preservatives, where it is difficult to describe the exact quantity of ingredients due to trade secrets, etc. it may be described within the range of maximum and minimum values.
- (4) Purpose (Function): State the function of the relevant ingredients expressed in the product.

210mm×297mm[woodfree paper(80g/m<sup>2</sup>) or medium quality paper(80g/m<sup>2</sup>) ]

<b>Affirmation of Non-Inclusion and Non-Use of Chemical Substances</b>				
Submitter	Trade name (name)		Business registration number	
	Name (representative)		Name and contact information of a person in charge;	(E-mail: )
	Location (place of business)		(Phone: ) (Fax: )	
Product Information	Product Category		Product name	
			Formulation type	
	Manufacturing country (In the case of imported products)		Manufacturer (In the case of imported products)	
	Number of raw material substances		Number of raw material suppliers	
	Prohibited substance(s) (A)			
	Substance(s) used (B)			
	Contained substance(s) to which child-resistant packaging is applied (C)			
Affirmation	I have verified that a substance other than the "substance(s) used (B)" which			

<p>Details</p>	<p>meet(s) the "standards for content of substances used in products" among the "prohibited substance(s) (A)" and "restricted substance(s)" specified in the safety standards by item in accordance with attached Table 2 of the "Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification"; and a substance other than the substance(s) listed as "contained substance(s) to which child-resistant packaging is applied (C)" specified in attached Table 4 have not been contained or used in raw materials for products, preservatives in raw materials, and the entire process of manufacturing products, including finished products. If any matters other than those verified are confirmed, I affirm that I have no objection to any legal action.</p>
<p>I, the undersigned, hereby submit an affirmation pursuant to Article 10 (1) of the Consumer Chemical Products and Biocides Safety Control Act and Article 5 (1) of the Enforcement Rules of the same Act.</p> <p style="text-align: right;">Date: mm-dd-yyyy</p> <p style="text-align: center;">Representative: (signature or seal)</p>	

210 mm × 297 mm [woodfree paper (80 g/m<sup>2</sup>) or medium quality paper (80 g/m<sup>2</sup>)]

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### How to complete the form

1. In the column headed "prohibited substance(s) (A)," write down the name of a prohibited substance in accordance with the General Standards and the name of a prohibited substance by product category, as specified in attached Table 2;
2. In the column headed "substance(s) used (B)," write down the name of a substance that meets the requirements of the table headed "standards for content of substances used in products" among restricted substances listed in attached Table 2 safety standards by item if said substance has been used as a raw material for a product, as a preservative in a raw material, or in the entire process of manufacturing products;
3. In the column headed "contained substance(s) to which child-resistant packaging is applied (C)" write down the name of a substance, if any, that meets the standards for substances to which child-resistant packaging is applied;
4. If there is insufficient space to display all substances in the column "prohibited substance(s)" or "substance(s) used", or "contained substance(s) to which child-resistant packaging is applied," provide information separately on an attached form.

<b>Product Information Subject To Report</b>			
Product classification	<input type="checkbox"/> Product(s) verified to comply with the safety standards (limited to where there is no derivative product) <input type="checkbox"/> Representative product(s) and derivative product(s) <input type="checkbox"/> derivative product(s) <input type="checkbox"/> The same ODM product(s) (limited to cases under Article 5 (7))		
Name(s) of product(s) verified to comply with the safety standards/Representative product(s)		Purpose/Formulation	
Name(s) of series/ODM products		Changes compared to representative product(s)	
Photos of product(s) verified to comply with the safety standards/Representative product(s)		Photos of series/ODM product(s)	
<Front>		<Front>	
<Back>		<Back>	
Documents attached	1. A document evidencing that the product is a derivative product (limited to where there is a derivative product); 2. A document evidencing that the same kinds of ODM products are supplied to several persons placing an order (limited to cases under Article 5 (6)).		

210 mm × 297 mm [woodfree paper (80g/m<sup>2</sup>) or medium quality paper (80g/m<sup>2</sup>)]



Documents attached	<p>1. For a mixed substance or a substance without its registry number (CAS No.), any of the following data:</p> <ul style="list-style-type: none"> <li>• A material safety data sheet (MSDS) under Article 41 of the Occupational Safety and Health Act;</li> <li>• A safety data of materials recognized both home and abroad;</li> <li>• A safety data sheet (SDS) of products;</li> <li>• Information on materials provided by the manufacturer of a product or substance;</li> <li>• Information on the manufacturer of materials, if the information on the material has not been created or exists.</li> </ul> <p>2. Ingredients and mixing ratio of products for verifying compliance with the safety standards in Form 2 submitted to the testing and inspection institution.</p>
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### How to complete the form

- (1) Ingredient number: The number shall be given for each ingredient in the chemical, and if the ingredient is a mixed substance, the name of ingredient which consists of the relevant mixed substance shall be stated as a sub-number.
- (2) Ingredient name: Indicate the substance name prescribed by the Act or the public notice. The material name not prescribed by the Act or the public notice may be stated based on the substance name, the IUPAC name (International Union of Pure and Applied Chemistry), or the CA name (Chemical Abstracts) listed in the National Chemicals Information System of the National Institute of Chemical Safety(kreach.me.go.kr), or be stated in the trivial name.
- (3) Mixing ratio: The contents of an ingredient shall be written in whole numbers, and if its contents is not more than 1.0 percent, it shall be written to the third decimal place: Provided, That in cases of the ingredients which consist of a mixed substance, the data provided by the manufacturer of the relevant mixed substance, or the matters indicated on the MSDS or information known to the reporting person shall be stated.
- (4) Purpose (Function): State the function of the relevant ingredient used in the product (e.g., acidity regulator, solvent).
- (5) Whether to be subject to labeling matters: State a substance if the substance falls under the following items (e.g., main substances, preservatives, and allergens):
  - Main substances (maximum content): Substances that consists of a large portion of a product (maximum content, etc.). However, if the maximum content is water (purified water), substances that consist of the next large portion shall be additionally indicated;
  - Main substances (main function): Materials that express the main functions of the product;
  - Preservatives : Active substances used for preserving raw materials of a product and the product itself;
  - Substances causing allergic reaction: If substances falling under the table 4 of Table 6 are used not less than 0.01% in a product, such substances may be abbreviated as allergens;
  - Surfactants;
  - Acute human health hazard substances, Chronic human health hazard substances, Ecological hazard substances, Authorized substances, Restricted substances, Prohibited substances : Substances falling under subparagraphs 6 through 9 of Article 2 of the Act on Registration and Evaluation of Chemical Substances;
  - Active substances: Active substances under subparagraph 7 of Article 3 of the Act;
  - Substances subject to intensive control: Substances subject to intensive control designated pursuant to subparagraph 10-2 of Article 2 of the Act on Registration and Evaluation of Chemical Substances;
  - Nanomaterials: If substances are treated articles, nanomaterials that are intentionally contained in the product.
- (6) If the product is an imported product, an overseas manufacturer may prepare and submit this Form and trade name and representative shall be that of the overseas manufacturer.

210mm×297mm[woodfree paper(80g/m<sup>2</sup>) or medium quality paper(80g/m<sup>2</sup>)]

■ Public Notice of Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification [ Form 6 ]

<b><u>Application for Risk Assessment</u></b>				
Submitter	Trade name (name)		Business registration number	
	Name (representative)		Name and contact information	(E-mail:                    )
	Location (place of business)		(Phone:                    ) (Fax:                    )	
Product Informa tion	Product Category		Product name	
			Formulation type	
	Manufacturing country (in the case of imported products)		Manufacturer (in the case of imported products)	
Substan ce Informa tion	Substance name	CAS No.	Mixing ratio(%)	Purpose of substance
<p>I (we) hereby apply as above for the risk assessment under Article 5 (3) of Public Notice of Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification, and confirm that if the above information is incorrect, the applicant will be fully held accountable therefor.</p> <p style="text-align: right;">(mm-dd-yyyy)</p> <p style="text-align: right;">Representative :                    (signature or seal)</p>				

Documents attached	<ol style="list-style-type: none"><li>1. One copy of the business registration certificate</li><li>2. Product description (product purpose, directions for use, mechanism of action, product images, etc.)</li><li>3. Exposure scenario (user, exposure target, exposure frequency, replacement cycle, etc.)</li><li>4. Physicochemical property data (state of substance, water solubility, melting/freezing point, boiling point, vapor pressure, octanol/water partition coefficient, etc.)</li><li>5. Test data on hazards (toxicological information such as chronic or subchronic inhalation toxicity data, etc.)</li><li>6. Other data required to demonstrate safety</li></ol>
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### How to complete the form

(1) Documents attached

- Where exposure to humans and the environment is limited to specific pathways, considering the intended users and use environments of the product, certain data may be exempted from submission.
- Test data on physicochemical properties and hazards shall refer to the "Regulation on Test Methods of Chemical Substances (Notification of the National Institute of Environmental Research)."

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210mm×297mm[woodfree paper(80g/m<sup>2</sup>) or medium quality paper(80g/m<sup>2</sup>)]

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<b>Application for Verification of Child-Resistant Packaging</b> (Also to be used as a certificate of child-resistant packaging)					
Applicant	Business name (Name)		Business registration number		
	Name in full (Representative)		Contact person's name and contact information	(Email: )	
	Location (Place of business)		(Phone: ) (Fax: )		
Information on product for verification of conformity to safety standards	Category	<input type="checkbox"/> ] Manufactured [ <input type="checkbox"/> ] Imported	Item		
	Product name		Use		
	Formulation type		Weight, volume, number of sheets		
	Packaging type and method (whether reclosable) <i>Resealable packaging, continuous spiral closure, random push down while turning</i>				
Information on verification of safety standards for child-resistant packaging	Manufacturer name		Model name		
	Address (Phone/Fax: )				
	Packaging type and method (whether reclosable) <i>Resealable packaging, continuous spiral closure, random push down while turning</i>				
	Certification of conformity to safety standards  (Choose one)	[ <input type="checkbox"/> ] Score r e p o r t (Certificate) [ <input type="checkbox"/> ] Test result report [ <input type="checkbox"/> ] Others _____	Issue No. <i>If</i> <i>applicable</i>	Issuing authority	
			Issue date	Standards for i n s p e c t i o n <i>ISO-8317:2015</i>	
[ <input type="checkbox"/> ] Preliminary test [ <input type="checkbox"/> ] Main test (Limited to cases where the "Notice on the Standards and Methods for Testing and Inspection of Consumer Chemical Products Subject to Safety Verification" issued by the National Institute of Chemical Safety applies)					

Pursuant to Article 5 of the Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification, an application for verification is made as above to use child-resistant packaging on the consumer chemical product subject to safety verification; and the applicant confirms to take all responsibility for any misinformation stated above.

Year      Month      Date

Applicant:                      (Signature or seal)

**To the head of the testing and inspection agency**

Documents  
attached

1. One copy of the business registration certificate
2. One copy of the product manual for child-resistant packaging
3. One copy of documents certifying that child-resistant packaging is used (certificate, score report, test result report, etc.)

**Application confirmation number:**

Pursuant to Article 5 of the Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification, a certificate of child-resistant packaging is hereby issued for the consumer chemical product subject to safety verification.

Year      Month      Date

To the head of the  
testing                      and  
inspection agency



210 mm × 297 mm [woodfree paper (80 g/m<sup>2</sup>) or medium quality paper (80 g/m<sup>2</sup>)]

<p align="center"><b>Application for Changes in Child-Resistant Packaging</b>                      (Also to be used as a certificate of changes in child-resistant packaging)</p>				
Applicant:	Business name (Name)		Business registration number	
	Name in full (Representative)		Contact person's name and contact information	(Email: )
	Location (Place of business)	(Phone: ) (Fax: )		
Details of certification of child-resistant packaging	Category	<input type="checkbox"/> Manufactured <input type="checkbox"/> Imported	Item	
	Product name		Use	
	Form		Application verification number:	
	Method of certifying child-resistant packaging <input type="checkbox"/> Score report (Certificate) <input type="checkbox"/> <input type="checkbox"/> Test result report <input type="checkbox"/> Others			
	Packaging type and method (whether reclosable) <i>Resealable packaging, continuous spiral closure, random push down while turning</i>			
Change details	(Use a separate sheet if necessary)			

Pursuant to Article 5 of the Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification, an application is made as above to submit changes in the child-resistant packaging used on the consumer chemical product subject to safety verification; and if the above information is incorrect, the applicant will be fully held accountable therefor.

Year                      Month                      Date

Applicant: (Signature or seal)

To the head of the testing and inspection agency

Document  
attache  
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One copy of a document evidencing the application

**Application confirmation number:**

Pursuant to Article 5 of the Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification, a certificate of changes in child-resistant packaging is hereby issued for the consumer chemical product subject to safety verification.

Year                      Month                      Date

To the head of the  
testing                      and  
inspection agency



210 mm × 297 mm [woodfree paper (80 g/m<sup>2</sup>) or medium quality paper (80 g/m<sup>2</sup>)]

<b><u>Application for Using Preservative Substances in Preservative-Treated Filter Products</u></b>				
Submitter	Trade name (title)		Business registration number	
	Name (representative)		Name and contact details of the person in charge	(E-mail:                    )
	Location (place of business)		(Phone:                    ) (Fax:                    )	
Product information	Product name		Purpose	
	Manufacturer name		Manufacturer address	
	Country of origin (In cases of imported products)		Importer name (In cases of imported products)	
Substance information	Substance name	CAS Number	Quantity of consumption (mg/kg)	① Emissions (mg)
<p>I, the undersigned, hereby file an application as stated above pursuant to attached Table 2 of the Designation of, and Safety and Labeling Standards for, Consumer Chemical Products Subject to Safety Verification to use preservative substances in preservative-treated filter products and confirm that if the above information is incorrect, the applicant will be fully held accountable therefor.</p> <p style="text-align: right;">Date:                    (mm/dd/yyyy)</p> <p style="text-align: right;">Representative:                    (signature or seal)</p>				

210mm×297mm [woodfree paper (80g/m<sup>2</sup>) or medium quality paper (80g/m<sup>2</sup>)]

② Documents attached	<ol style="list-style-type: none"><li>1. A copy of the business registration certificate;</li><li>2. Product descriptions (purposes, instructions for use, operating principles, product photos, etc.);</li><li>3. Exposure scenarios (users, objects to be exposed, frequency of exposure, replacement cycles, etc.);</li><li>4. Materials on physical and chemical properties (the state of substances, water solubility, melting points/freezing points, boiling points, vapor pressures, octanol/water partition coefficients, etc.);</li><li>5. Testing materials concerning hazard (information on toxicity such as materials on chronic or sub-chronic inhalation toxicity);</li><li>6. Reports on the results of testing emissions [referring to those from tests conducted in accordance with the Rules on Testing and Inspection of Consumer Chemical Products Subject to Safety Verification (Public Notice of the National Institute of Chemical Safety)];</li><li>7. Other materials necessary to substantiate safety.</li></ol>
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### How to complete the Form

- ① Emissions: The results achieved from tests conducted in accordance with the Rules on Testing and Inspection of Consumer Chemical Products Subject to Safety Verification (Public Notice of the National Institute of Chemical Safety)
- ② Documents attached
  - If exposure to people and the environment is limited to certain routes in light of subjects in which the relevant product is used and the environment, some materials need not be submitted.
  - Refer to the Rules on Methods of Testing Chemical Substances (Public Notice of the National Institute of Environmental Research) for testing materials concerning physical and chemical properties and hazard.

210mm×297mm [woodfree paper (80g/m<sup>2</sup>) or medium quality paper (80g/m<sup>2</sup>)]

<b>Product Effectiveness and Efficacy Certificate</b>						
Applicant	Trade name (name)			Business registration number		
	Name (Representative)			Name and contact information of personnel in charge	(e-mail: )	
	Location (Place of business)			(Contact: ) (Fax: )		
Product information for verifying compliance with safety standards	Product name (Sample name)			Product category		
	Formulation			Use		
	Information on biocidal substances in products	Substance name	CAS No.	Composition ratio (%)	In-product use	
	The effectiveness and efficacy of the products for verifying compliance with safety standards are identical to the following effectiveness and efficacy, and it is confirmed that the substances other than the biocidal substances in the products do not impair the effectiveness and efficacy of the products [ ].					
Product effectiveness and efficacy information	Product name			Product category		
	Formulation			Use		
	Information on biocidal substances in products	Substance name	CAS No.	Composition ratio (%)	In-product use	
	Demonstration of effectiveness and efficacy	[ ] Report (certificate) [ ] Test result report [ ] Other				
		Issue number <i>if applicable</i>			Testing institution	
Test date			Test methods ( <i>Example</i> ) ASTM E 2149			
Result (Test species/results)	<i>(Example) Escherichia coli ATCC 8739 99.9% sterilization, Escherichia coli 99.9% sterilization, Escherichia coli ATCC 8739 99.9% sterilization, Escherichia coli 99.9% sterilization</i>					

In accordance with Article 5 of the Enforcement Rule of the Consumer Chemical Products and Biocides Safety Control Act, I hereby submit as above to notify the effectiveness and efficacy of biocidal substances in consumer chemical products subject to safety verification. If any of the above information is found to be incorrect, I agree to assume full responsibility and raise no objections against any legal action.

MM/DD/YYYY

Applicant:

(Signature or Seal)

**To the Korea Environmental Industry & Technology Institute**

Attachments	1. 1 copy of business license
	2. 1 copy of product description
	3. 1 copy of document certifying the effectiveness and efficacy of the product (e.g., certificate, report, test result report)

210mm×297mm [white paper (80g/m<sup>2</sup>) or book paper (80g/m<sup>2</sup>)]

<b>Application for Modification to Product Effectiveness and Efficacy</b>						
Applicant	Trade name (name)		Business registration number			
	Name (Representative)		Name and contact information of personnel in charge		(e-mail: )	
	Location (Place of business)					(Contact: ) (Fax: )
Product information for verifying compliance with safety standards	Report number					
	Product name		Product category			
	Formulation		Use			
	Information on biocidal substances in products	Substance name	CAS No.		Composition ratio (%)	In-product use
	The effectiveness and efficacy of the products for verifying compliance with safety standards are identical to the following effectiveness and efficacy, and it is confirmed that the substances other than the biocidal substances in the products do not impair the effectiveness and efficacy of the products [ ].					
Product effectiveness and efficacy information	Product name		Product category			
	Formulation		Use			
	Information on biocidal substances in products	Substance name	CAS No.		Composition ratio (%)	In-product use
	Demonstration of effectiveness and efficacy	[ ] Report (certificate) [ ] Test result report [ ] Other				
		Issue number <i>if applicable</i>			Testing institution	
Test date			Test methods ( <i>Example</i> ) <i>ASTM E 2149</i>			
Result (Test species/ results)		<i>(Example) Escherichia coli ATCC 8739 99.9% sterilization, Escherichia coli 99.9% sterilization, Escherichia coli ATCC 8739 99.9% sterilization, Escherichia coli 99.9% sterilization</i>				
Details of the modification application	(Use an additional sheet if necessary)					

In accordance with Article 5 of the Enforcement Rules of the Consumer Chemical Products And Biocides Safety Control Act, I hereby file an application as above to modify the information designed to notify the effectiveness and efficacy of biocidal substances in consumer chemical products subject to safety verification. If any of the above information is found to be incorrect, I agree to assume full responsibility and raise no objections against any legal action.

MM/DD/YYYY

Applicant:

(Signature or Seal)

To the **Korea Environmental Industry & Technology Institute**

Attachments	1 copy of document certifying the fact of application
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210mm×297mm [white paper (80g/m<sup>2</sup>) or book paper (80g/m<sup>2</sup>)]