Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act (1)

Objective of the Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act

- The Industrial Safety and Health Act was enacted in 1972 with the aim of securing the safety and health of workers in workplaces and facilitating the establishment of comfortable working environments.
- There have been reports of industrial accidents such as explosions or poisoning in workplaces caused by workers' lack of knowledge on hazards or proper handling methods of substances.
- In order to prevent such industrial accidents, it is important to surely provide employers with information on hazards of substances and have them conduct risk assessments based on the relevant information and reasonably manage substances depending on assessed risks.
- The Industrial Safety and Health Act provides for the labelling and information provision using a Safety Data Sheet (SDS) for substances that are liable to cause danger or inflict health impairment upon workers.

Amendment of the Industrial Safety and Health Act (amended in 2014 and enforced on June 1, 2016)

- The Industrial Safety and Health Act and related laws and regulations were amended in order to have employers and workers understand any known hazards of substances and encourage employers to individually create a mechanism to consider and take required measures based on risks, thereby preventing possible industrial accidents due to substances for which certain hazards against people have been clarified.
- With regard to the substances and their preparations (mixtures) as set forth in Appended Table 9 and item (i) of Appended Table 3 of the Order for Enforcement of the Industrial Safety and Health Act, the Amended Act mainly requires the following three measures.
  - (i) Labelling of the container or package used for transfer or provision (supply) (*the coverage expanded through the amendment)
  - (ii) Delivery of a Safety Data Sheet (SDS) (*no change)
  - (iii) Implementation of risk assessments when handling substances, etc. (*made obligatory through the amendment)

Substances Subject to the Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act

[Substances for which the labelling and document (SDS) delivery is obligatory] (* as of January 1, 2020)

Substances for which the labelling and SDS delivery is obligatory (673 types of substances and mixtures containing any of them; see p.40 to p.46)

(1) Substances for which the manufacturing permission is required as provided for in item (i) of Appended Table 3 of the Order for Enforcement of the Industrial Safety and Health Act (7 types)

(2) Substances for which the labelling and notification is obligatory as provided for in Appended Table 9 of the Order for Enforcement of the Industrial Safety and Health Act (666 types)

(3) Mixtures containing any of the above (The cut-off value[*1] is defined for each substance.)

*1 Any substance contained at an amount less than the relevant defined level is not subject to the obligation of labelling or SDS delivery.

[Substances for which efforts for the labelling and SDS delivery should be made]

Based on Article 24-14 and Article 24-15 of the Regulation on Industrial Safety and Health, it is required to make efforts for the labelling and SDS delivery also for all substances that pose hazards[*2] other than those for which the labelling and SDS delivery is obligatory and mixtures containing any of the former

*2 Substances that pose physical hazards or health hazards for which hazard classes, hazard categories and label elements are specified in JIS Z 7252

[Products that are intended primarily for ordinary use by general consumers[*3] are excluded.]

*3 Such products include the following.

(i) Pharmaceuticals, quasi-drugs and cosmetics specified in the Act on Securing Quality, Efficacy and Safety of Products including Pharmaceuticals and Medical Devices

(ii) Agricultural chemicals specified in the Agricultural Chemicals Control Act

(iii) Products that do not take any form other than solid and that are not made into a powdery or granular state while being handled

(iv) Products handled in a state wherein subject substances are completely sealed

(v) Foods at the stage of being provided to general consumers; Excluding those for which any work is scheduled during which workers are likely to be exposed to subject substances

Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act (2)

Information on a Label

The following elements should be indicated on a label.
These elements will be all covered with the labelling in conformity to JIS Z 7253.

(i) Names

- Enter the substance names or the product name.
- The names in a label and the names in an SDS must be the same.

(ii) Precautionary statements

- Enter the relevant statement ("Danger" or "Warning") indicated in the column of "Precautionary statement" as assigned in Annex 3 of the GHS or Annex A of JIS Z 7253 in accordance with the GHS hazard classes and hazard categories.
- Mixtures are to be categorized as such in principle, but if there is no applicable category, precautionary statements for subject substances contained in the relevant mixture may be indicated for each of such substances.
- Any substance whose hazard class and hazard category are not classified under the GHS may be omitted.

(iii) Effects on the human body
(iv) Stability and reactivity

- Enter the relevant statements indicated in the column of "Hazard statement" as assigned in Annex 3 of the GHS or Annex A of JIS Z 7253 in accordance with the GHS hazard classes and hazard categories.
- Mixtures are to be categorized as such in principle, but if there is no applicable category, hazard statements for subject substances contained in the relevant mixture may be indicated for each of such substances.
- Any substance whose hazard class and hazard category are not classified under the GHS may be omitted.

(v) Precautions concerning storage or handling

- Enter measures to be taken in order to prevent damage due to exposure to the substances, etc. or improper storage or handling thereof.

(vi) Marks (pictograms)

- Indicate a black symbol with a sufficiently bold red frame. The whole size should preferably be 1cm2 or larger.
- Enter marks (pictograms) as assigned in Annex 3 of the GHS or Annex A of JIS Z 7253 in accordance with the GHS hazard classes and hazard categories.
- Mixtures are to be categorized as such in principle, but if there is no applicable category, marks (pictograms) for subject substances contained in the relevant mixture may be indicated for each of such substances.
- Any substance whose hazard class and hazard category are not classified under the GHS may be omitted.

(vii) Name, address and telephone number of a person who performs the labelling

- Enter the name (for a juridical person, its name), address and telephone number of a person who transfers or provides (supplies) the substances, etc.

(viii) Ingredients

* Ingredients were excluded from the elements that must be indicated on June 1, 2016, but they should preferably be indicated.

- List up the names of the ingredients as considered appropriate.

Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act (3)

Information on a Label

- Print or affix a label on the container or package.
- For a product with double packaging, the labelling should be on the inner package in principle.
- When it is difficult to print all elements to be indicated on the container or package or on a tag, it is allowed to separately print the elements mentioned in (ii) to (vi) on p.33 on a tag or fold-out label and tie it to the container or package.

Exemption of Solids from the Obligation of Labelling (from June 1, 2016)

Pure substances	Out of pure substances for which the labelling is obligatory, the following types of metals* in forms other than powder (a lump, plate, bar or line, etc.) are exempted from the obligation of labelling. * Yttrium; Indium; Cadmium; Silver; Chromium; Cobalt; Tin; Thallium; Tungsten; Tantalum; Copper; Lead; Nickel; Platinum; Hafnium; Ferrovanadium; Manganese; Molybdenum; and Rhodium
Mixtures	Out of preparations (mixtures) containing substances for which the labelling is obligatory, **those that do not take any form other than solid and are not made into a powdery state while being transported or stored** are exempted from the obligation of labelling. * A powdery state includes a state containing inhalable granules no larger than 0.1mm in hydrodynamic diameter. * **Specifically, steel stocks, wires, plastic pellets, etc. are exempted in principle**.

< Dangerous substances or skin corrosive chemicals that are not exempted >
The following are not exempted from the obligation of labelling.
1. Dangerous substances (those set forth in Appended Table 1 of the Order for Enforcement of the Industrial Safety and Health Act)
2. Flammable substances or others that may cause an explosion or fire
3. Substances that may cause skin corrosion (such as preparations (mixtures) containing calcium oxide or sodium hydroxide, etc.)

* Specifically, substances that pose physical hazards or have skin corrosivity as categorized in accordance with the GHS hazard classes

Solids are only exempted from the obligation of labelling. SDSs need to continue to be delivered for solids as is standard practice.

SDS Delivery Methods

- Notification should be made in a method agreed to by the party concerned, such as through the delivery of a magnetic disk or the transmission using a facsimile machine, in addition to the delivery of a document.
- Another method is the inspection of a website. In this case, the relevant website must be under the control of the transferrer or provider (supplier).
- SDS delivery must be completed by the time of transfer or provision (supply) of chemicals.
- In the case of transferring or providing (supplying) substances continuously and repeatedly, it would suffice to deliver an SDS once instead of delivering an SDS every time. However, attention should be paid not to omit to deliver any necessary SDS.
- Labels and SDSs should be in Japanese language.

For substances for which the labelling and SDS delivery is obligatory, risk assessments have come to be required (Article 57-3 of the Industrial Safety and Health Act).
Employers are expected to conduct risk assessments depending on hazard levels and take measures to reduce risks in order to prevent industrial accidents.

Labelling and Document (SDS) Delivery System under the Industrial Safety and Health Act (4)

Contents to be Indicated in an SDS

The following contents should be indicated in a Safety Data Sheet (SDS).
These contents will be all covered with the labelling in conformity to JIS Z 7253. Model SDSs that were prepared and publicized by the Ministry of Health, Labour and Welfare (http://anzeninfo.mhlw.go.jp/anzen_pg/GHS_MSD_FND.aspx) can be referred to when preparing an SDS.

(i) Names

- Enter the substance names or the product name.
- The names in an SDS and the names in a label must be the same.

(ii) Ingredients and their respective contents

- List up all substances contained and enter their respective contents (in weight %, in principle).
- It is preferable to also indicate a CAS registry number, alias name and reference number for publication in an official gazette.

(iii) Physical and chemical properties

- Enter the appearances, pH, melting points, boiling points, flash points, vapor pressures, solubility, etc. of the substances in reference to model SDSs.

(iv) Effects on the human body

- Enter information on hazards, such as acute toxicity, skin corrosion/irritation, carcinogenicity.
- Mixtures are to be tested as such in principle, but if testing for harmful effects has not been conducted for the relevant mixture as a whole, hazard statements for subject substances contained in the relevant mixture may be indicated for each of such substances.

(v) Precautions concerning storage or handling

- Enter precautions concerning handling, including proper storage conditions and the separation from incompatible substances, and other information such as the administrative level and threshold limit value, facility measures and personal protective equipment.

(vi) Emergency measures to be taken in the event of leakage etc.

- Enter measures to be taken in the case of inhalation, adhesion, swallowing or entry in an eye of the substances, and appropriate extinguishing agents and prohibited ones, as well as evacuation measures, area access prohibition and the use of personal protective equipment, etc.

(vii) Name, address and telephone number of a person who makes the notification

- Enter the name (for a juridical person, its name), address and telephone number of a person who transfers or provides (supplies) the substances, etc.

(viii) Summary of physical or health hazards

- Enter the GHS hazard classes and hazard categories, marks (pictograms), precautionary statements, and hazard statements, as well as pictograms and statements as assigned in Annex 3 of the GHS or Annex A of JIS Z 7253 for the relevant notes of caution, in principle.
- Mixtures are to be categorized as such under the GHS in principle, but if there is no applicable hazard category, hazard statements for subject substances contained in the relevant mixture may be indicated for each of such substances.
- Marks (pictograms) may be in black and white. Notes for dust explosion hazards or the like are preferable.

(ix) Stability and reactivity

- Enter information on risks of the substances, etc. (conditions to be avoided, incompatible substances, expected hazardous degradation products).

(x) Applicable laws and regulations

- Enter the names of laws and regulations applicable to the substances, etc. and information on regulations based thereon.

(xi) Other contents that serve as reference

- Enter sources of the reference materials and other contents significant for the handling of the relevant substances.

Related Laws and Regulations (1)

Industrial Safety and Health Act (Extract) (As of January 1, 2020; hereinafter the same)

(Labelling, etc.)
Article 57 (1) A person who transfers or provides (supplies) explosives, pyrophorics, flammables or other substances that are liable to cause danger to workers, or benzene, preparations (mixtures) containing benzene or other substances that are liable to inflict health impairment upon workers that are provided for by Cabinet Order, or the substances referred to in paragraph (1) of the preceding Article, by putting them into a container or package, must indicate the following elements on the container or package (on the container, when putting them into a container and further packaging the entirety for transfer or provision (supply)), as provided for by Order of the Ministry of Health, Labour and Welfare; provided, however, that this does not apply to containers or packages that are intended primarily for ordinary use by general consumers:
(i) the following elements:
(a) names of the substances;
(b) effects on the human body;
(c) precautions concerning storage or handling;
(d) beyond what is set forth in (a) to (c), the elements provided for by Order of the Ministry of Health, Labour and Welfare;
(ii) marks as specified by the Minister of Health, Labour and Welfare to draw the attention of workers handling those substances.
(2) A person who transfers or provides (supplies) the substances provided for by Cabinet Order referred to in the preceding paragraph or the substances referred to in paragraph (1) of the preceding Article, by a method other than the method prescribed in the preceding paragraph, must deliver a document describing the elements set forth in the items of the same paragraph to a party to whom those substances are transferred or provided (supplied), as provided for by Order of the Ministry of Health, Labour and Welfare.

(Delivery of Documents, etc.)
Article 57-2 (1) A person who transfers or provides (supplies) substances that are liable to cause danger or inflict health impairment upon workers and are provided for by Cabinet Order or the substances referred to in Article 56, paragraph (1) (hereinafter referred to as "notifiable substances") must notify a party to whom the notifiable substances are transferred or provided (supplied) of the following contents by a method of delivering a document or other methods provided for by Order of the Ministry of Health, Labour and Welfare (for a person prescribed in paragraph (2) of the preceding Article, excluding the contents prescribed in the same paragraph); provided, however, that this does not apply in the case of transferring or providing (supplying) notifiable substances intended primarily for ordinary use by general consumers:
(i) names of the substances;
(ii) ingredients and their respective contents;
(iii) physical and chemical properties;
(iv) effects on the human body;
(v) precautions concerning storage or handling;
(vi) emergency measures to be taken in the event of leakage etc.;
(vii) beyond what is set forth in the preceding items, the contents provided for by Order of the Ministry of Health, Labour and Welfare.
(2) When changes are necessary to the contents that have been notified under the preceding paragraph, a person who transfers or provides (supplies) notifiable substances must endeavor to promptly notify a party to whom those substances have been transferred or provided (supplied) of all the contents set forth in the items of the same paragraph after the changes by a method of delivering a document or other methods provided for by Order of the Ministry of Health, Labour and Welfare.
(3) Beyond what is provided for in the preceding two paragraphs, other contents necessary for the notification referred to in the preceding two paragraphs are to be provided for by Order of the Ministry of Health, Labour and Welfare.

Order for Enforcement of Industrial Safety and Health Act (Extract)

(Dangerous or Harmful Substances Whose Names, etc. Should be Indicated)
Article 18 The substances provided for by Cabinet Order referred to in Article 57, paragraph (1) of the Act are as follows:
(i) the substances set forth in Appended Table 9 (for yttrium, indium, cadmium, silver, chromium, cobalt, tin, thallium, tungsten, tantalum, copper, lead, nickel, platinum, hafnium, ferrovanadium, manganese, molybdenum and rhodium, limited to those in a powdery state);
(ii) preparations (mixtures) or other substances containing any of the substances set forth in Appended Table 9 that are provided for by Order of the Ministry of Health, Labour and Welfare;
(iii) preparations (mixtures) or other substances (excluding those set forth in 8. of item (i) of Appended Table 3) containing any of the substances set forth in 1. to 7. of the same item that are provided for by Order of the Ministry of Health, Labour and Welfare.

(Dangerous or Harmful Substances Whose Names, etc. Should be Notified)
Article 18-2 The substances provided for by Cabinet Order referred to in Article 57-2, paragraph (1) of the Act are as follows:
(i) the substances set forth in Appended Table 9;
(ii) preparations (mixtures) or other substances containing any of the substances set forth in Appended Table 9 that are provided for by Order of the Ministry of Health, Labour and Welfare;
(iii) preparations (mixtures) or other substances (excluding those set forth in 8. of item (i) of Appended Table 3) containing any of the substances set forth in 1. to 7. of the same item that are provided for by Order of the Ministry of Health, Labour and Welfare.

Appended Table 9 and item (i) of Appended Table 3 (Omitted) * Lists of substances are on page 40 onward.

Regulation on Industrial Safety and Health (Extract)

(Dangerous or Harmful Substances Whose Names, etc. Should be Indicated)
Article 30 The substances provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 18, item (ii) of the Order are preparations (mixtures) or other substances containing any of the substances set forth in the left hand column of Appended Table 2 (excluding those wherein the contents of the substances set forth in the same column are as specified in the middle column of the same table, preparations (mixtures) or other substances containing tetraalkyllead (limited to leaded gasoline), and preparations (mixtures) or other substances containing nitroglycerin (limited to those desensitized with desensitizing agent having nonvolatility of 98% or more wherein the content of nitroglycerin is less than 1%)); provided, however, that those that do not take any form other than solid and are not made into a powdery state while being transported or stored (excluding those falling under any of the following items) are excluded:
(i) dangerous substances (meaning those set forth in Appended Table 1 of the Order; the same applies hereinafter);
(ii) flammable substances other than dangerous substances or others that may cause an explosion or fire;
(iii) preparations (mixtures) or other substances containing calcium oxide or sodium hydroxide, etc. that may cause skin corrosion.

Regulation on Industrial Safety and Health (Extract) (Cont.)

Article 31 The substances provided for by Cabinet Order referred to in Article 18, item (iii) of the Order are as follows; provided, however, that the substances referred to in the proviso of the preceding Article are excluded:
(i) preparations (mixtures) or other substances containing dichlorobenzidine and its salts wherein the content of dichlorobenzidine and its salts is 0.1% or more but 1% or less in weight;
(ii) preparations (mixtures) or other substances containing α-naphthylamine and its salts wherein the content of α-naphthylamine and its salts is 1% in weight;
(iii) preparations (mixtures) or other substances containing chlorinated biphenyl (alias: PCB) wherein the content of chlorinated biphenyl is 0.1% or more but 1% or less in weight;
(iv) preparations (mixtures) or other substances containing o-tolidine and its salts wherein the content of o-tolidine and its salts is 1% in weight;
(v) preparations (mixtures) or other substances containing dianisidine and its salts wherein the content of dianisidine and its salts is 1% in weight;
(vi) preparations (mixtures) or other substances containing beryllium and its compounds wherein the content of beryllium and its compounds is 0.1% or more but 1% or less in weight (for alloy, 0.1% or more but 3% or less in weight);
(vii) preparations (mixtures) or other substances containing benzotrichloride wherein the content of benzotrichloride is 0.1% or more but 0.5% or less in weight.

(Labelling of Names, etc.)
Article 32 The labelling under Article 57, paragraph (1) of the Act must be performed by printing the elements set forth in the items of the same paragraph (hereinafter referred to as the "labelling elements" in this Article) on the container or package of the substance concerned or by affixing a label on which the labelling elements are printed onto the container or package; provided, however, that when it is difficult to print all the labelling elements on the container or package or to affix a label on which all the labelling elements are printed onto the container or package, the labelling may be performed by printing the elements set forth in (b) to (d) of item (i) of the same paragraph and item (ii) of the same paragraph on a label and tying it to the container or package.

Article 33 The elements provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 57, paragraph (1), item (i), (d) of the Act are as follows:
(i) the name (for a juridical person, its name), address and telephone number of a person who performs the labelling under Article 57, paragraph (1) of the Act;
(ii) precautionary statements;
(iii) stability and reactivity.

(Delivery of Documents)
Article 34 The document under Article 57, paragraph (2) of the Act must be delivered in the case of transfer or provision (supply) by any method other than those prescribed in paragraph (1) of the same Article; provided, however, that this does not apply when the document has already been delivered in the case where the substances are transferred or provided (supplied) continuously or repeatedly.

(Dangerous or Harmful Substances Whose Names, etc. Should be Notified)
Article 34-2 The substances provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 18-2, item (ii) of the Order are preparations (mixtures) or other substances containing any of the substances set forth in the left hand column of Appended Table 2 (excluding those wherein the contents of the substances set forth in the same column are as specified in the right hand column of the same table and preparations (mixtures) or other substances containing nitroglycerin (limited to those desensitized with desensitizing agent having nonvolatility of 98% or more wherein the content of nitroglycerin is less than 0.1%)).

Article 34-2-2 The substances provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 18-2, item (iii) of the Order are as follows:
(i) preparations (mixtures) or other substances containing dichlorobenzidine and its salts wherein the content of dichlorobenzidine and its salts is 0.1% or more but 1% or less in weight;
(ii) preparations (mixtures) or other substances containing α-naphthylamine and its salts wherein the content of α-naphthylamine and its salts is 1% in weight;
(iii) preparations (mixtures) or other substances containing chlorinated diphenyl (alias: PCB) wherein the content of chlorinated biphenyl is 0.1% or more but 1% or less in weight;
(iv) preparations (mixtures) or other substances containing o-tolidine and its salts wherein the content of o-tolidine and its salts is 0.1% or more but 1% or less in weight;
(v) preparations (mixtures) or others containing dianisidine and its salts wherein the content of dianisidine and its salts is 0.1% or more but 1% or less in weight;
(vi) preparations (mixtures) or other substances containing beryllium and its compounds wherein the content of beryllium and its compounds is 0.1% or more but 1% or less in weight (for alloy, 0.1% or more but 3% or less in weight);
(vii) preparations (mixtures) or other substances containing benzotrichloride wherein the content of benzotrichloride is 0.1% or more but 0.5% or less in weight.

(Notification of Names, etc.)
Article 34-2-3 The methods provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 57-2, paragraphs (1) and (2) of the Act are the delivery of a magnetic disk, the transmission using a facsimile machine and other methods, whose use for the notification is agreed to by the party concerned.

Article 34-2-4 The contents provided for by Order of the Ministry of Health, Labour and Welfare referred to in Article 57-2, paragraph (1), item (vii) of the Act are as follows:
(i) the name (for a juridical person, its name), address and telephone number of a person who makes a notification under Article 57-2, paragraph (1) of the Act;
(ii) summary of physical or health hazards;
(iii) stability and reactivity;
(iv) applicable laws and regulations;
(v) other contents that serve as reference.

Article 34-2-5 The notification under Article 57-2, paragraph (1) of the Act is to be made by the time of transfer or provision (supply) of the notifiable substances referred to the same paragraph; provided, however, that this does not apply when the notification has already been made in the case where the notifiable substances are transferred or provided (supplied) continuously or repeatedly.

Article 34-2-6 Out of the contents referred to in Article 57-2, paragraph (1), item (ii) of the Act, the contents of the ingredients must be notified in percentage in weight for each of the substances set forth in 1. to 7. of item (i) of Appended Table 3 of the Order and Appended Table 9 of the Order. In this case, a percentage in weight to be notified may be a figure within the range between that obtained by rounding off the fractions less than 10% and that obtained by rounding up those fractions.

Related Laws and Regulations (3)

Regulation on Industrial Safety and Health (Extract) (Cont.)

[Provisions related to the obligation to make efforts for the labelling and SDS delivery]

(Labelling Concerning Hazards and Toxicity, etc. of Hazardous Chemical Substances, etc.)
Article 24-14 (1) A person who transfers or provides (supplies) chemical substances, preparations (mixtures) containing chemical substances, or other substances that are liable to cause danger or inflict health impairment upon workers and are specified by the Minister of Health, Labour and Welfare (excluding those set forth in the items of Article 18 of the Order and item (i) of Appended Table 3 of the Order; referred to as "hazardous chemical substances, etc." in the following paragraph and Article 24-16), by putting them into a container or package, must endeavor to indicate the following elements on the container or package (on the container, when putting them into a container and further packaging the entirety for transfer or provision (supply)):
(i) the following elements:
(a) names of the substances;
(b) effects on the human body;
(c) precautions concerning storage or handling;
(d) the name (for a juridical person, its name), address and telephone number of a person who performs the labelling;
(e) precautionary statements;
(f) stability and reactivity;
(ii) marks as specified by the Minister of Health, Labour and Welfare to draw the attention of workers handling those substances.
(2) A person who transfers or provides (supplies) hazardous chemical substances, etc. by a method other than the method prescribed in the preceding paragraph must endeavor to deliver a document describing the contents set forth in the items of the same paragraph to a party to whom those substances, etc. are transferred or provided (supplied).

Article 24-15 (1) A person who transfers or provides (supplies) specified hazardous chemical substances, etc. (meaning chemical substances, preparations (mixtures) containing chemical substances, or other substances that are liable to cause danger or inflict health impairment upon workers and are specified by the Minister of Health, Labour and Welfare (excluding the notifiable substances prescribed in Article 57-2, paragraph (1) of the Act); hereinafter the same applies in this Article and the following Article) must endeavor to deliver a document to a party to whom those substances, etc. are transferred or provided (supplied) or to notify the party of the following contents concerning the specified hazardous chemical substances, etc. (for the person prescribed in paragraph (2) of the preceding Article, excluding the contents prescribed in paragraph (1) of the same Article) by the method agreed to by the party:
(i) names of the substances;
(ii) ingredients and their respective contents;
(iii) physical and chemical properties;
(iv) effects on the human body;
(v) precautions concerning storage or handling;
(vi) emergency measures to be taken in the event of leakage etc.;
(vii) the name (for a juridical person, its name), address and telephone number of a person who makes the notification;
(viii) summary of physical or health hazards;
(ix) stability and reactivity;
(x) applicable laws and regulations;
(xi) other contents that serve as reference.
(2) When changes are necessary to the contents that have been notified under the preceding paragraph, a person who transfers or provides (supplies) specified hazardous chemical substances, etc. must endeavor to promptly notify a party to whom those substances, etc. have been transferred or provided (supplied) of all the contents set forth in the items of the same paragraph after the changes by a method of delivering a document or any other method agreed to by the party.

Article 24-16
The Minister of Health, Labour and Welfare may publicize guidelines necessary for promoting the labelling or notification under the preceding two Articles to be performed by persons who transfer or provide (supply) hazardous chemical substances, etc. or specified hazardous chemical substances, etc. with the aim of enabling parties who receive the transfer or provision (supply) of hazardous chemical substances, etc. or specified hazardous chemical substances, etc. to properly and effectively carry out the investigation referred to in Article 28-2, paragraph (1) of the Act or take measures as referred to in the same paragraph

Marks Specified by the Minister of Health, Labour and Welfare under Article 57, Paragraph (1), Item (ii) of the Industrial Safety and Health Act

The marks specified by the Minister of Health, Labour and Welfare as referred to in Article 57, paragraph (1), item (ii) of the Industrial Safety and Health Act (hereinafter referred to as the "Act") are pictograms specified in JIS Z 7253 (Hazard Communication of Chemicals Based on GHS – Labelling and Safety Data Sheet (SDS)); provided, however, that when any of the following nameplates, signs or labels is affixed to the container or package referred to in Article 57, paragraph (1) of the Act, the relevant mark is to be the symbol indicated on the nameplate, sign or label concerned:
(i) the nameplates or signs set forth in Form No. 1 of the Public Notice Establishing Standards for the Shipping of Dangerous Goods (Public Notice of the Ministry of Transport No. 549 of 1979);
(ii) the labels set forth in Form No. 2 of the Public Notice Establishing Standards for the Air Transport of Explosives (Public Notice of the Ministry of Transport No. 572 of 1983)

Chemical Substances, Preparations (Mixtures) Containing Chemical Substances, or Other Substances that are Liable to Cause Danger or Inflict Health Impairment upon Workers and are Specified by the Minister of Health, Labour and Welfare under Article 24-14, Paragraph (1) and Article 24-15, Paragraph (1) of the Industrial Safety and Health Act

Chemical substances, preparations (mixtures) containing chemical substances, or other substances that are liable to cause danger or inflict health impairment upon workers and are specified by the Minister of Health, Labour and Welfare as referred to in Article 24-14, paragraph (1) and Article 24-15, paragraph (1) of the Industrial Safety and Health Act are substances that pose physical hazards or health hazards for which hazard classes, hazard categories and label elements are specified pursuant to Annex A (excluding A.4) of JIS Z 7252 (Hazard Communication of Chemicals Based on GHS – Labelling and Safety Data Sheet (SDS)).

Related Laws and Regulations (4)

Guidelines Concerning the Promotion of the Labelling or Notification of Hazards or Toxicity of Chemical Substances, etc.

(Purpose)

Article 1 The Guidelines aim to establish necessary elements and contents concerning the labelling and notification concerning hazards or toxicity of hazardous chemical substances, etc. (meaning the hazardous chemical substances, etc. prescribed in Article 24-14, paragraph (1) of the Regulation on Industrial Safety and Health (hereinafter referred to as the "Regulation"); the same applies hereinafter) and specified hazardous chemical substances, etc. (meaning the specified hazardous chemical substances, etc. prescribed in Article 24-15, paragraph (1) of the Regulation; the same applies hereinafter), and to promote appropriate handling of substances that are liable to cause danger or inflict health impairment upon workers (meaning hazardous chemical substances, etc. and substances set forth in the items of Article 18 of the Order for Enforcement of the Industrial Safety and Health Act (Cabinet Order No. 318 of 1972) and in item (i) of Appended Table 3 of the same Order; hereinafter referred to as "chemical substances, etc."), thereby contributing to the prevention of industrial accidents due to chemical substances, etc.

(Labelling by Transferrers or Providers (Suppliers))

Article 2 (1) A person who transfers or provides (supplies) hazardous chemical substances, etc. by putting them into a container or package must indicate the following elements concerning the hazardous chemical substances, etc. on the container or package (on the container, when putting them into a container and further packaging the entirety for transfer or provision (supply); hereinafter the same applies in this Article); provided, however, that this does not apply to containers or packages that are intended primarily for ordinary use by general consumers:

(i) the following elements:
  (a) names of the substances;
  (b) effects on the human body;
  (c) precautions concerning storage or handling;
  (d) the name (for a juridical person, its name), address and telephone number of a person who performs the labelling;
  (e) precautionary statements;
  (f) stability and reactivity;

(ii) pictograms specified in the Marks Specified by the Minister of Health, Labour and Welfare under Article 24-14, Paragraph (1), Item (ii) of the Regulation (Public Notice of the Ministry of Health, Labour and Welfare No. 151 of 2012).

(2) The labelling under the preceding paragraph must be performed by printing the elements set forth in the items of the same paragraph (hereinafter referred to as the "labelling elements") on the container or package referred to in the same paragraph or by affixing a label on which the labelling elements are printed onto the container or package; provided, however, that when it is difficult to print all the labelling elements on the container or package or to affix a label on which all the labelling elements are printed onto the container or package, the labelling may be performed by printing the elements set forth in (b) to (f) of item (i) of the same paragraph and item (ii) of the same paragraph on a label and tying it to the container or package.

(3) A person who transfers or provides (supplies) hazardous chemical substances, etc. by a method other than the method prescribed in paragraph (1) must deliver a document describing the labelling elements to a party to whom those substances, etc. are transferred or provided (supplied).

(4) When there have been any changes to the labelling elements concerning hazardous chemical substances, etc. after transferring or providing (supplying) them, the person who has transferred or provided (supplied) those hazardous chemical substances, etc. is to promptly notify the party to whom those substances, etc. have been transferred or provided (supplied) of the details of the changes.

(5) Notwithstanding the provisions of the preceding four paragraphs, when there are any provisions concerning the indication of the labelling elements concerning hazardous chemical substances, etc. in any laws or regulations, the relevant labelling may be performed pursuant to those provisions.

(Notification, etc. by Transferrers or Providers (Suppliers))

Article 3 (1) A person who transfers or provides (supplies) specified hazardous chemical substances, etc. is to notify a party to whom those substances, etc. are transferred or provided (supplied) of the following contents concerning the specified hazardous chemical substances, etc. (for a person prescribed in paragraph (3) of the preceding Article, excluding the labelling elements) by the method agreed to by the party; provided, however, that this does not apply when a person transfers or provides (supplies) specified hazardous chemical substances, etc. as products that are intended primarily for ordinary use by general consumers:

(i) names of the substances;
(ii) ingredients and their respective contents;
(iii) physical and chemical properties;
(iv) effects on the human body;
(v) precautions concerning storage or handling;
(vi) emergency measures to be taken in the event of leakage etc.;
(vii) the name (for a juridical person, its name), address and telephone number of a person who makes the notification;
(viii) summary of physical or health hazards;
(ix) stability and reactivity;
(x) applicable laws and regulations;
(xi) other contents that serve as reference.

(2) The provisions of paragraph (4) of the preceding Article apply mutatis mutandis to the notification referred to in the preceding paragraph.

(Labelling and Preparation, etc. of Documents by Employers)

Article 4 (1) When an employer (meaning both an employer that produces or imports chemical substances, etc. and an employer who is a party that receives the transfer or provision (supply) of the relevant substances, etc.; the same applies hereinafter) has workers handle chemical substances, etc. that are put in a container or package, the employer is to indicate the labelling elements on the container or package (on the container, when having workers handle chemical substances that are put in a container and further in a package; hereinafter referred to as a "container, etc." in paragraph (3)).

(2) The provisions of Article 2, paragraph (2) apply mutatis mutandis to the labelling referred to in the preceding paragraph.

(3) In the case where the labelling under Article 2, paragraph (2) applied mutatis mutandis pursuant to the preceding paragraph may interfere with workers' handling of chemical substances, etc. or where the labelling under the proviso of the same paragraph is difficult, an employer may perform the labelling by taking either of the following measures:

(i) to indicate the substance names on the container, etc. and also indicate pictograms referred to in Article 2, paragraph (1), item (ii), as necessary;
(ii) to always post the labelling elements in a readily visible location in the workplace or keep a list describing the labelling elements in the workplace so that workers handling the container, etc. can easily understand the labelling elements, or to record the labelling elements in a magnetic tape, magnetic disk or anything equivalent thereto and install a device in the workplace where the container, etc. is handled so that workers handling the container, etc. can always check the details of the record.

(4) When an employer has workers handle chemical substances, etc. by a method other than the method prescribed in paragraph (1), the employer is to post the labelling elements in a place dedicated for the storage or handling of the chemical substances, etc.

(5) When an employer (limited to an employer that produces or imports chemical substances, etc.) has workers handle chemical substances, etc., the employer is to prepare a document describing the contents set forth in the items of paragraph (1) of the preceding Article concerning those chemical substances, etc.

(6) Where an employer has received a notification under Article 2, paragraph (4) (including the case applied mutatis mutandis pursuant to paragraph (2) of the preceding Article), where an employer has performed the labelling under paragraph (1) (including the labelling in the case referred to in the proviso of Article 2, paragraph (2) applied mutatis mutandis pursuant to paragraph (2) and measures taken under paragraph (3); hereinafter the same applies in this paragraph) or has posted the labelling elements under paragraph (4) and when there have been any changes to the labelling elements thus indicated or posted, or where an employer has prepared a document under the preceding paragraph and when there have been any changes to the contents set forth in the items of paragraph (1) of the preceding Article that are described in the document, the employer is to rewrite the contents concerning that notification, those changes to the labelling elements or to the contents set forth in those items.

(Posting, etc. of Safety Data Sheets)

Article 5 (1) When an employer has workers handle chemical substances, etc., the employer is to always post the contents notified under Article 3, paragraph (1) or the contents described in a document prepared under paragraph (5) of the preceding Article (hereinafter a document, etc. describing these contents is referred to as a "Safety Data Sheet" in this Article) in a readily visible location in the workplace, keep it in the workplace, or otherwise disseminate the details of those contents to workers.

(2) When an employer carries out the investigation referred to in Article 28-2, paragraph (1) or Article 57-3, paragraph (1) of the Industrial Safety and Health Act (referred to as the "Act" in paragraph (4)), the employer is to utilize a Safety Data Sheet.

(3) When an employer provides workers handling chemical substances, etc. with education or takes other measures for preventing industrial accidents due to those chemical substances, etc., the employer is to utilize a Safety Data Sheet.

(4) An employer who has established a safety committee referred to in Article 17, paragraph (1) of the Act, a health committee referred to in Article 18, paragraph (1) of the Act, or a safety and health committee referred to in Article 19, paragraph (1) of the Act (hereinafter referred to as a "committee"") is to have the committee investigate and deliberate measures to deepen understanding of the employer, workers and other related parties on the hazards, toxicity and other properties of chemical substances, etc. handled in the workplace and to ensure proper handling of chemical substances, etc., and to have the committee present its opinions to the employer.

(Details)

Article 6 The details necessary for the elements and contents provided for in the Guidelines are to be decided by the Director of the Labour Standards Bureau, Ministry of Health, Labour and Welfare.

Substances Subject to the Obligations of Labelling and Notification (1)

Substances indicated in the column of substance name and preparations (mixtures) or other substances containing those substances at levels above the ranges indicated in the right hand columns are subject to the obligations of labelling and SDS delivery.

- Isomers collectively represented by one substance name are all included.
- When the content of a contained substance (weight %) is below the cut-off value for labelling or the cut-off value for SDS, that substance is not subject to the obligations of labelling and SDS delivery.

(As of January 1, 2020)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
Item (i) of Appended Table 3 of the Order for Enforcement of the Industrial Safety and Health Act (substances requiring manufacturing permission, Group-1 specified chemical substances)				
1	Dichlorobenzidine and its salts	91-94-1, etc.	0.1%	0.1%
2	α-Naphthylamine and its salts	134-32-7, etc.	1%	1%
3	Polychlorinated biphenyl (alias: PCB)	*	0.1%	0.1%
4	o-Tolidine and its salts	119-93-7, etc.	1%	0.1%
5	Dianisidine and its salts	119-90-4, etc.	1%	0.1%
6	Beryllium and its compounds	*	0.1%	0.1%
7	Benzotrichloride	98-07-7	0.1%	0.1%
Appended Table 9 of the Order for Enforcement of the Industrial Safety and Health Act				
1	Acrylamide	79-06-1	0.1%	0.1%
2	Acrylic acid	79-10-7	1%	1%
3	Ethyl acrylate	140-88-5	1%	0.1%
4	n-Butyl acrylate	141-32-2	1%	0.1%
5	2-Hydroxypropyl acrylate	999-61-1	1%	0.1%
6	Methyl acrylate	96-33-3	1%	0.1%
7	Acrylonitrile	107-13-1	1%	0.1%
8	Acrolein	107-02-8	1%	1%
9	Sodium azide	26628-22-8	1%	1%
10	Adipic acid	124-04-9	1%	1%
11	Adiponitrile	111-69-3	1%	1%
11-2	Isobutyl nitrite	542-56-3	1%	0.1%
11-3	Asphalt	8052-42-4	1%	0%
11-4	Acetylacetone	123-54-6	1%	1%
12	Acetylsalicylic acid (alias: Aspirin)	50-78-2	0.3%	0.1%
13	Acetamide	60-35-5	1%	0.1%
14	Acetaldehyde	75-07-0	1%	0.1%
15	Acetonitrile	75-05-8	1%	1%
16	Acetophenone	98-86-2	1%	1%
17	Acetone	67-64-1	1%	0.1%
18	Acetone cyanohydrin	75-86-5	1%	1%
19	Aniline	62-53-3	1%	0.1%
20	Ammonium amidosulfate	7773-06-0	1%	1%
21	2-Aminoethanol	141-43-5	1%	0.1%
22	4-Amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one (alias: Metribuzin)	21087-64-9	1%	1%
23	3-Amino-1H-1,2,4-triazole (alias: Amitrole)	61-82-5	1%	0.1%
24	4-Amino-3,5,6-trichloropyridine-2-carboxylic acid (alias: Picloram)	1918-02-1	1%	1%
25	2-Aminopyridine	504-29-0	1%	1%
26	Sodium hydrogen sulfite	7631-90-5	1%	1%
27	Allyl alcohol	107-18-6	1%	1%
28	1-Allyloxy-2,3-epoxypropane	106-92-3	1%	0.1%
29	Arylmercury compounds	*	1%	0.1%
30	Allyl n-propyl disulfide	2179-59-1	1%	0.1%
31	Trimethyl phosphite	121-45-9	1%	1%
32	Alkylaluminum compounds	*	1%	1%
33	Alkylmercury compounds	*	0.3%	0.1%
34	3-(α-Acetonylbenzyl)-4-hydroxycoumarin (alias: Warfarin)	81-81-2	0.3%	0.1%
35	α,α-Dichlorotoluene	98-87-3	0.1%	0.1%
36	α-Methylstyrene	98-83-9	1%	0.1%
37	Aluminum	7429-90-5	1%	1%
	Water-soluble aluminum salts	*	1%	0.1%
38	Antimony and its compounds (excluding Antimony trioxide)	*	1%	0.1%
	Antimony trioxide	1309-64-4	0.1%	0.1%
39	Ammonia	7664-41-7	0.2%	0.1%
39-2	Asbestos	*	0.1%	0.1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
40	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	1%	0.1%
41	Methyl isocyanate	624-83-9	0.3%	0.1%
42	Isoprene	78-79-5	1%	0.1%
43	N-Isopropylaniline	768-52-5	1%	0.1%
44	O-Ethyl-O-(3-methyl-4-methylthiophenyl) N-isopropylaminophosphonate; Ethyl 3-methyl-4-(methylthio)phenyl (isopropyl)phosphoramidate (alias: Fenamiphos)	22224-92-6	1%	0.1%
45	Isopropylamine	75-31-0	1%	1%
46	Isopropyl ether	108-20-3	1%	0.1%
47	3'-Isopropoxy-2-trifluoromethylbenzanilide (alias: Flutolanil)	66332-96-5	1%	1%
48	Isopentyl alcohol (alias: Isoamylalcohol)	123-51-3	1%	1%
49	Isophorone	78-59-1	1%	0.1%
50	Sulfur monochloride	10025-67-9	1%	1%
51	Carbon monoxide	630-08-0	0.3%	0.1%
52	Nitrogen monoxide	10102-43-9	1%	1%
53	Dinitrogen oxide	10024-97-2	0.3%	0.1%
54	Yttrium and its compounds	*	1%	1%
55	ε-Caprolactam	105-60-2	1%	1%
56	2-Imidazolidinethione	96-45-7	0.3%	0.1%
57	4,4'-(4-Iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride (alias: CI basic red 9)	569-61-9	1%	0.1%
58	Indium	7440-74-6	1%	1%
58	Indium compounds	*	0.1%	0.1%
59	Indene	95-13-6	1%	1%
60	Urethane	51-79-6	0.1%	0.1%
61	Ethanol	64-17-5	0.1%	0.1%
62	Ethanethiol	75-08-1	1%	1%
63	Ethylidenenorbornene	16219-75-3	1%	0.1%
64	Ethylamine	75-04-7	1%	1%
65	Ethyl ether	60-29-7	1%	0.1%
66	Ethyl sec-pentyl ketone	541-85-5	1%	1%
67	Ethyl p-nitrophenyl thionobenzenephosphonate (alias: EPN)	2104-64-5	1%	0.1%
68	O-Ethyl S-phenyl ethylphosphonodithioate (alias: Fonofos)	944-22-9	1%	0.1%
69	2-Ethylhexanoic acid	149-57-5	0.3%	0.1%
70	Ethylbenzene	100-41-4	0.1%	0.1%
71	Ethyl methyl ketone peroxide	1338-23-4	1%	1%
72	N-Ethylmorpholine	100-74-3	1%	1%
72-2	Ethylen	74-85-1	1%	1%
73	Ethyleneimine	151-56-4	0.1%	0.1%
74	Ethylene oxide	75-21-8	0.1%	0.1%
75	Ethylene glycol	107-21-1	1%	1%
76	Ethylene glycol monoisopropyl ether	109-59-1	1%	1%
77	Ethylene glycol monoethyl ether (alias: Cellosolve)	110-80-5	0.3%	0.1%
78	Ethylene glycol monoethyl ether acetate (alias: Cellosolve acetate)	111-15-9	0.3%	0.1%
79	Ethylene glycol mono-n-butyl ether (alias: Butyl cellosolve)	111-76-2	1%	0.1%
79-2	Ethylene glycol monobutyl ether acetate	112-07-2	1%	0.1%
80	Ethylene glycol monomethyl ether (alias: Methyl cellosolve)	109-86-4	0.3%	0.1%
81	Ethylene glycol monomethyl ether acetate	110-49-6	0.3%	0.1%
82	Ethylene chlorohydrin	107-07-3	0.1%	0.1%
83	Ethylenediamine	107-15-3	1%	0.1%

Substances Subject to the Obligations of Labelling and Notification (2)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
84	1,1'-Ethylene-2,2'-bipyridinium dibromide (alias: Diquat)	85-00-7	1%	0.1%
85	2-Ethoxy-2,2-dimethylethane; 2-Ethoxy-2-methylpropane	637-92-3	1%	1%
86	2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether (alias: Etofenprox)	80844-07-1	1%	1%
87	Epichlorohydrin	106-89-8	0.1%	0.1%
88	1,2-Epoxy-3-isopropoxypropane	4016-14-2	1%	1%
89	2,3-Epoxy-1-propanal	765-34-4	1%	0.1%
90	2,3-Epoxy-1-propanol	556-52-5	0.1%	0.1%
91	2,3-Epoxypropyl phenyl ether	122-60-1	1%	0.1%
92	Emery	1302-74-5	1%	1%
93	Erionite	12510-42-8	0.1%	0.1%
94	Zinc chloride	7646-85-7	1%	0.1%
95	Allyl chloride	107-05-1	1%	0.1%
96	Ammonium chloride	12125-02-9	1%	1%
97	Cyanogen chloride	506-77-4	1%	1%
98	Hydrogen chloride	7647-01-0	0.2%	0.1%
99	Thionyl chloride	7719-09-7	1%	1%
100	Vinyl chloride	75-01-4	0.1%	0.1%
101	Benzyl chloride	100-44-7	1%	0.1%
102	Benzoyl chloride	98-88-4	1%	1%
103	Phosphoryl chloride	10025-87-3	1%	1%
104	Chlorine	7782-50-5	1%	1%
105	Chlorinated camphene (alias: Toxaphene)	8001-35-2	1%	0.1%
106	Chlorinated diphenyloxide	31242-93-0	1%	1%
107	Yellow Phosphorus	12185-10-3	1%	0.1%
108	4,4'-Oxybis(2-chloroaniline)	28434-86-8	1%	0.1%
109	O,O,O',O'-Tetraethyl oxybis(thiophosphonate) (alias: Sulfotep)	3689-24-5	1%	0.1%
110	4,4'-Oxybis(benzenesulfonylhydrazide)	80-51-3	1%	1%
111	Tetrasodium oxybisphosphonate	7722-88-5	1%	1%
112	Octachloronaphthalene	2234-13-1	1%	1%
113	1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene (alias: Chlordane)	57-74-9	1%	0.1%
114	2-Octanol	123-96-6	1%	1%
115	Octane	111-65-9, etc.	1%	1%
116	Ozone	10028-15-6	1%	0.1%
117	ω-Chloroacetophenone	532-27-4	1%	0.1%
118	Auramine	492-80-8	1%	0.1%
119	o-Anisidine	90-04-0	1%	0.1%
120	o-Chlorostyrene	2039-87-4	1%	1%
121	o-Chlorotoluene	95-49-8	1%	1%
122	o-Dichlorobenzene	95-50-1	1%	1%
123	o-sec-Butylphenol	89-72-5	1%	1%
124	o-Nitroanisole	91-23-6	1%	0.1%
125	o-Phthalodinitrile	91-15-6	1%	1%
126	Hydrogen peroxide	7722-84-1	1%	0.1%
127	Gasoline	8006-61-9	1%	0.1%
128	Catechol	120-80-9	1%	0.1%
129	Cadmium and its compounds	*	0.1%	0.1%
130	Carbon black	1333-86-4	1%	0.1%
131	Calcium cyanamide	156-62-7	1%	1%
132	Formic acid	64-18-6	1%	1%
133	Ethyl formate	109-94-4	1%	1%
134	Methyl formate	107-31-3	1%	1%
135	Xylidine	1300-73-8	1%	0.1%
	2,3-Xylidine	87-59-2	1%	0.1%
	2,4-Xylidine	95-68-1	1%	0.1%
	2,5-Xylidine	95-78-3	1%	0.1%
	2,6-Xylidine	87-62-7	1%	0.1%
	3,4--Xylidine	95-64-7	1%	0.1%
	3,5-Xylidine	108-69-0	1%	0.1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
136	Xylene	1330-20-7	0.3%	0.1%
	o-Xylene	95-47-6	0.3%	0.1%
	m-Xylene	108-38-3	0.3%	0.1%
	p-Xylene	106-42-3	0.3%	0.1%
137	Silver and its water-soluble compounds	*	1%	0.1%
138	Cumene	98-82-8	1%	0.1%
139	Glutaraldehyde	111-30-8	1%	0.1%
140	Creosote oil	61789-28-4	0.1%	0.1%
141	Cresol	1319-77-3	1%	0.1%
	o-Cresol	95-48-7	1%	0.1%
	m-Cresol	108-39-4	1%	0.1%
	p-Cresol	106-44-5	1%	0.1%
142	Chromium and its compounds (excluding Chromic acid, Dichromic acid and its salts)	*	1%	0.1%
	Chromic acid and its salts	*	0.1%	0.1%
	Dichromic acid and its salts	*	0.1%	0.1%
143	Chloroacetyl chloride	79-04-9	1%	1%
144	Chloroacetaldehyde	107-20-0	1%	0.1%
145	Chloroacetone	78-95-5	1%	1%
146	Chloroethane (alias: Ethyl chloride)	75-00-3	1%	0.1%
147	2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine (alias: Atrazine)	1912-24-9	1%	0.1%
148	4-Chloro-o-phenylenediamine	95-83-0	1%	0.1%
148-2	Chloroacetic acid	79-11-8	1%	1%
149	Chlorodifluoromethane (alias: HCFC-22)	75-45-6	1%	0.1%
150	2-Chloro-6-trichloromethylpyridine (alias: Nitrapyrin)	1929-82-4	1%	1%
151	2-Chloro-1,1,2-trifluoroethyl difluoromethyl ether (alias: Enflurane)	13838-16-9	1%	0.1%
152	1-Chloro-1-nitropropane	600-25-9	1%	1%
153	Chloropicrin	76-06-2	1%	1%
154	Chlorophenol	25167-80-0	1%	0.1%
	o-Chlorophenol	95-57-8	1%	0.1%
	m-Chlorophenol	108-43-0	1%	0.1%
	p-Chlorophenol	106-48-9	1%	0.1%
155	2-Chloro-1,3-butadiene	126-99-8	1%	0.1%
155-2	1-Chloro-2-propanol	127-00-4	1%	1%
155-3	2-Chloro-1-propanol	78-89-7	1%	1%
156	2-Chloropropyonic acid	598-78-7	1%	1%
157	2-Chlorobenzylidenemalononitrile	2698-41-1	1%	1%
158	Chlorobenzene	108-90-7	1%	0.1%
159	Chloropentafluoroethane (alias: CFC-115)	76-15-3	1%	1%
160	Chloroform	67-66-3	1%	0.1%
161	Chloromethane (alias: Methyl chloride)	74-87-3	0.3%	0.1%
162	4-Chloro-2-methylaniline	95-69-2	0.1%	0.1%
162	4-Chloro-2-methylaniline hydrochloride	3165-93-3	0.1%	0.1%
162-2	O-3-Chloro-4-methyl-2-oxo-2H-chromen-7-yl O,O-diethyl phosphorothioate	56-72-4	1%	1%
163	Chloromethyl methyl ether	107-30-2	0.1%	0.1%
164	Light oil; Gas oil	64741-44-2	1%	0.1%
165	Shale oils	68308-34-9	0.1%	0.1%
165-2	Silica, crystalline	14808-60-7, etc.	0.1%	0.1%
166	Ketene	463-51-4	1%	1%
167	Germanium tetrahydride	7782-65-2	1%	1%
168	Mineral oil	*	1%	0.1%
169	Phosphorus pentachloride	10026-13-8	1%	1%
170	Paraffin wax	8002-74-2	1%	1%
171	Vanadium pentaoxide	1314-62-1	0.1%	0.1%
172	Cobalt and its compounds	*	0.1%	0.1%
173	Bromine pentafluoride	7789-30-2	1%	1%
174	Coal tar	*	0.1%	0.1%
175	Coal tar naphtha	*	1%	1%
176	Acetic acid	64-19-7	1%	1%
177	Ethyl acetate	141-78-6	1%	1%
178	1,3-Dimethylbutyl acetate	108-84-9	1%	1%

Substances Subject to the Obligations of Labelling and Notification (3)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
179	Lead acetate	301-04-2	0.3%	0.1%
180	Vinyl acetate	108-05-4	1%	0.1%
181	Butyl acetate		1%	1%
	n-Butyl acetate	123-86-4	1%	1%
	Isobutyl acetate	110-19-0	1%	1%
	tert-Butyl acetate	540-88-5	1%	1%
	sec-Butyl acetate	105-46-4	1%	1%
182	Propyl acetate		1%	1%
	n-Propyl acetate	109-60-4	1%	1%
	Isopropyl acetate	108-21-4	1%	1%
183	Benzyl acetate	140-11-4	1%	1%
184	Pentyl acetate (alias: Amyl acetate)	628-63-7, etc.	1%	0.1%
	n-Pentyl acetate (alias: n-Amyl acetate)	628-63-7	1%	0.1%
	Isopentyl acetate (alias: Isoamyl acetate)	123-92-2	1%	0.1%
185	Methyl acetate	79-20-9	1%	1%
186	Subtilisins	9014-01-1	1%	0.1%
187	Phosphorus trichloride	7719-12-2	1%	1%
188	Zinc oxide	1314-13-2	1%	0.1%
189	Aluminum oxide	1344-28-1	1%	1%
190	Calcium oxide	1305-78-8	1%	1%
191	Titanium(IV) oxide	13463-67-7	1%	0.1%
192	Iron oxide	1309-37-1	1%	1%
193	1,2-Butylene oxide; 1,2-Epoxybutane	106-88-7	1%	0.1%
194	Propylene oxide; 1,2-Epoxypropane	75-56-9	0.1%	0.1%
195	Mesityl oxide; 4-Methyl-3-penten-2-one	141-79-7	1%	0.1%
196	Boron trioxide	1303-86-2	1%	1%
197	Boron tribromide	10294-33-4	1%	1%
197-2	Aluminum trifluoride	7784-18-1	1%	0.1%
198	Chlorine trifluoride	7790-91-2	1%	1%
199	Boron trifluoride	7637-07-2	1%	1%
200	Calcium hypochlorite	7778-54-3	1%	0.1%
201	N,N'-Diacetylbenzidine	613-35-4	1%	0.1%
202	Diacetone alcohol; 4-Hydroxy-4-methylpentan-2-one	123-42-2	1%	0.1%
203	Diazomethane	334-88-3	0.2%	0.1%
204	Cyanamide	420-04-2	1%	0.1%
205	Ethyl 2-cyanoacrylate	7085-85-0	1%	0.1%
206	Methyl 2-cyanoacrylate	137-05-3	1%	0.1%
207	2,4-Diaminoanisole	615-05-4	1%	0.1%
208	4,4'-Diaminodiphenyl ether	101-80-4	1%	0.1%
209	4,4'-Diaminodiphenyl sulfide	139-65-1	1%	0.1%
210	4,4'-Diamino-3,3'-dimethyldiphenylmethane; 4,4'-Methylenebis(2-methylbenzenamine)	838-88-0	1%	0.1%
211	2,4-Diaminotoluene	95-80-7	1%	0.1%
212	Tetraalkyllead	*	—	0.1%
213	Potassium cyanide	151-50-8	1%	1%
214	Calcium cyanide	592-01-8	1%	1%
215	Hydrogen cyanide	74-90-8	1%	1%
216	Sodium cyanide	143-33-9	1%	0.1%
217	Diisobutyl ketone	108-83-8	1%	1%
218	Diisopropylamine	108-18-9	1%	1%
219	Diethanolamine; 2,2'-Iminodiethanol	111-42-2	1%	0.1%
220	2-(Diethylamino)ethanol	100-37-8	1%	1%
221	Diethylamine	109-89-7	1%	1%
222	Diethyl ketone	96-22-0	1%	1%
223	Diethyl-p-nitrophenylthiophosphate; O,O-Diethyl O-4-nitrophenyl phosphorothioate (alias: Parathion)	56-38-2	1%	0.1%
224	1,2-Diethylhydrazine	1615-80-1	1%	0.1%
224-2	N,N-Diethylhydroxylamine	3710-84-7	1%	1%
224-3	Diethylene glycol monobutyl ether	112-34-5	1%	1%
225	Diethylenetriamine; 2,2'-Iminodi (ethylamine)	111-40-0	0.3%	0.1%
226	Carbon tetrachloride	56-23-5	1%	0.1%
227	1,4-Dioxane	123-91-1	1%	0.1%
228	O, O, O' ,O'-Tetraethyl 1,4-dioxane-2,3-diyldithiobis (thiophosphonate); S,S'-1,4-Dioxane-2,3-diylbis(O,O-diethyl phosphorodithioate) (alias: Dioxathion)	78-34-2	1%	1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
229	1,3-Dioxolane	646-06-0	1%	0.1%
230	Cyclohexanol	108-93-0	1%	0.1%
231	Cyclohexanone	108-94-1	1%	0.1%
232	Cyclohexane	110-82-7	1%	1%
233	Cyclohexylamine	108-91-8	0.1%	0.1%
234	2-Cyclohexylbiphenyl	10470-01-6	1%	0.1%
235	Cyclohexene	110-83-8	1%	1%
236	Cyclopentadienyltricarbonyl manganese; Tricarbonyl(η-cyclopentadienyl) manganese	12079-65-1	1%	1%
237	Cyclopentadiene	542-92-7	1%	1%
238	Cyclopentane	287-92-3	1%	1%
239	Dichloroacetylene	7572-29-4	1%	1%
240	Dichloroethane		1%	0.1%
	1,1-Dichloroethane	75-34-3	1%	0.1%
	1,2-Dichloroethane	107-06-2	1%	0.1%
241	Dichloroethylene; Dichloroethene		1%	0.1%
	1,1-Dichloroethylene; 1,1-Dichloroethene	75-35-4	1%	0.1%
	1,2-Dichloroethylene; 1,2-Dichloroethene	540-59-0	1%	0.1%
241-2	Dichloroacetic acid	79-43-6	1%	0.1%
242	3,3'-Dichloro-4,4'-diaminodiphenylmethane; 4,4'-Methylenebis(2-chloroaniline)	101-14-4	0.1%	0.1%
243	Dichlorodifluoromethane (alias: CFC-12)	75-71-8	1%	1%
244	1,3-Dichloro-5,5-dimethylimidazolidine-2,4-dione	118-52-5	1%	1%
245	3,5-Dichloro-2,6-dimethyl-4-pyridinol (alias: Clopidol)	2971-90-6	1%	1%
246	Dichlorotetrafluoroethane (alias: CFC-114)	76-14-2	1%	1%
247	2,2-Dichloro-1,1,1-trifluoroethane (alias: HCFC-123)	306-83-2	1%	1%
248	1,1-Dichloro-1-nitroethane	594-72-9	1%	1%
249	3-(3,4-Dichlorophenyl)-1,1-dimethylurea (alias: Diuron)	330-54-1	1%	1%
250	Sodium 2,4-dichlorophenoxyethyl sulfate	136-78-7	1%	1%
251	(2,4-Dichlorophenoxy)acetic acid	94-75-7	1%	0.1%
252	1,4-Dichloro-2-butene	764-41-0	0.1%	0.1%
253	Dichlorofluoromethane (alias: HCFC-21)	75-43-4	1%	0.1%
254	1,2-Dichloropropane	78-87-5	0.1%	0.1%
255	2,2-Dichloropropionic acid	75-99-0	1%	1%
256	1,3-Dichloropropene	542-75-6	1%	0.1%
257	Dichloromethane (alias: Methylenedichloride)	75-09-2	1%	0.1%
258	Osmium tetraoxide	20816-12-0	1%	1%
259	Dicyan	460-19-5	1%	1%
260	Dicyclopentadienyl iron; Bis(η-cyclopentadienyl)iron	102-54-5	1%	1%
261	Dicyclopentadiene; 3a,4,7,7a-Tetrahydro-4,7-methanoindene	77-73-6	1%	1%
262	2,6-Di-tert-butyl-4-cresol; 2,6-Di-tert-butyl-4-methylphenol	128-37-0	1%	0.1%
263	Diisopropyl 1,3-dithiolan-2-ylidenemalonate (alias: Isoprothiolane)	50512-35-1	1%	1%
264	O-Ethyl O-4-methylthiopenyl S-propyl phosphorodithioate (alias: Sulprofos)	35400-43-2	1%	1%
265	O,O-Diethyl S-(2-ethylthioethyl) phosphorodithioate (alias: Disulfoton)	298-04-4	1%	0.1%
266	O,O-Diethyl S-ethylthiomethyl phosphorodithioate (alias: Phorate)	298-02-2	1%	0.1%
266-2	S-tert-butylthiomethyl O,O-diethylphosphorodithioate	13071-79-9	1%	0.1%
267	O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazine-3(4H)-yl)methyl] phosphorodithioate; S-(3,4-Dihydroxy-4-oxobenzo[d][1,2,3]triazin-3-ylmethyl) O,O-dimethyl phosphorodithioate (alias: Azinphosmethyl)	86-50-0	1%	0.1%
268	O,O-Dimethyl S-1,2-bis(ethoxycarbonyl)ethyl phosphorodithioate; Diethyl[(dimethoxyphosphinothioyl)thio]butanedioate (alias: Malathion)	121-75-5	1%	0.1%
269	Disodium 4-[(2,4-dimethylphenyl)azo]-3-hydroxy-2,7-naphthalenedisulfonate (alias: Ponceau MX)	3761-53-3	1%	0.1%
270	Disodium 8-[[3,3'-dimethyl-4'-[[4-[[(4-methylphenyl)sulfonyl]oxy] phenyl] azo][1,1'-biphenyl]-4-yl]azo]-7-hydroxy-1,3-naphthalene disulfonate (alias: CI acid red 114)	6459-94-5	1%	0.1%
271	Disodium 3-hydroxy-4-[(2,4,5-trimethylphenyl)azo]-2,7-naphthalenedisulfonate (alias: Ponceau 3R)	3564-09-8	1%	0.1%
272	2,4-Dinitrotoluene	121-14-2	1%	0.1%
273	Dinitrobenzene	25154-54-5	1%	0.1%
274	2-(Di-n-butylamino) ethanol	102-81-8	1%	1%
275	Di-n-propyl ketone	123-19-3	1%	1%
276	Divinylbenzene	1321-74-0	1%	0.1%
277	Diphenylamine	122-39-4	1%	0.1%

Substances Subject to the Obligations of Labelling and Notification (4)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
278	Diphenyl ether	101-84-8	1%	1%
279	1,2-Dibromoethane (alias: EDB)	106-93-4	0.1%	0.1%
280	1,2-Dibromo-3-chloropropane	96-12-8	0.1%	0.1%
281	Dibromodifluoromethane	75-61-6	1%	1%
282	Dibenzoyl peroxide	94-36-0	1%	0.1%
283	Diborane	19287-45-7	1%	1%
284	N,N-Dimethylacetamide	127-19-5	1%	0.1%
285	N,N-Dimethylaniline	121-69-7	1%	1%
286	[4-[[4-(Dimethylamino)phenyl][4-[ethyl(3-sulfobenzyl)amino]phenyl] methylidene]cyclohexane-2,5-dien-1-ylidene](ethyl)(3-sulfonatobenzyl) ammonium sodium salt (alias: Benzyl violet 4B)	1694-09-3	1%	0.1%
287	Dimethylamine	124-40-3	1%	0.1%
288	Dimethyl ethylmercaptoethyl thiophosphate; S(and O)-2-Ethylthioethyl O,O-dimethyl phosphorothioate (alias: Methyl demeton)	8022-00-2	1%	0.1%
289	Dimethylethoxysilane	14857-34-2	1%	0.1%
290	Dimethylcarbamoyl chloride	79-44-7	0.1%	0.1%
291	Dimethyl 2,2-dichlorovinyl phosphate; 2,2-Dichloroethenyl dimethyl phosphate (alias: DDVP)	62-73-7	1%	0.1%
292	Dimethyl disulfide	624-92-0	1%	0.1%
292-2	Dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate (alias: DEP)	52-68-6	1%	0.1%
293	N,N-Dimethylnitrosoamine	62-75-9	0.1%	0.1%
294	Dimethyl-p-nitrophenylphosphorothioate; O,O-Dimethyl O-4-nitrophenyl phosphorothioate (alias: Methyl parathion)	298-00-0	1%	0.1%
295	Dimethylhydrazine		0.1%	0.1%
	1,1-Dimethylhydrazine	57-14-7	0.1%	0.1%
	1,2-Dimethylhydrazine	540-73-8	0.1%	0.1%
296	1,1'-Dimethyl-4,4'-bipyridinium dichloride (alias: Paraquat)	1910-42-5	1%	1%
297	1,1'-Dimethyl-4,4'-bipyridinium bis (methyl sulfate)	2074-50-2	1%	1%
298	Methyl 2-(4,6-dimethyl-2-pyrimidinylaminocarbonylaminosulfonyl) benzoate (alias: Sulfometuron methyl)	74222-97-2	1%	0.1%
299	N,N-Dimethylformamide	68-12-2	0.3%	0.1%
300	1-[(2,5-Dimethoxyphenyl)azo]-2-naphthol (alias: Citrus red No.2)	6358-53-8	1%	0.1%
301	Ethyl bromide	74-96-4	1%	0.1%
302	Hydrogen bromide	10035-10-6	1%	1%
303	Methyl bromide	74-83-9	1%	0.1%
304	Oxalic acid	144-62-7	1%	0.1%
305	Bromine	7726-95-6	1%	1%
306	Brominated biphenyl	*	1%	0.1%
307	Nitric acid	7697-37-2	1%	1%
308	Ammonium nitrate	6484-52-2	—	—
309	n-Propyl nitrate	627-13-4	1%	1%
310	Camphor	76-22-2	1%	1%
311	Silane	7803-62-5	1%	1%
313	Zirconium and its compounds	*	1%	1%
314	Man-made mineral fiber (excluding Refractory ceramic fibres)	*	1%	1%
	Refractory ceramic fibres	142844-00-6	1%	0.1%
315	Mercury and its inorganic compounds	*	0.3%	0.1%
316	Potassium hydroxide	1310-58-3	1%	1%
317	Calcium hydroxide	1305-62-0	1%	1%
318	Cesium hydroxide	21351-79-1	1%	1%
319	Sodium hydroxide	1310-73-2	1%	1%
320	Lithium hydroxide	1310-65-2	0.3%	0.1%
320-2	Sodium dihydridobis(2-methoxyethanolato)aluminate	22722-98-1	1%	1%
321	Lithium hydride	7580-67-8	0.3%	0.1%
322	Tin and its compounds	*	1%	0.1%
323	Styrene	100-42-5	0.3%	0.1%
324	Zinc stearate	557-05-1	1%	1%
325	Sodium stearate	822-16-2	1%	1%
326	Lead stearate	1072-35-1	0.1%	0.1%
327	Magnesium stearate	557-04-0	1%	1%
328	Strychnine	57-24-9	1%	1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
329	Petroleum ether	*	1%	1%
330	Petroleum naphtha	*	1%	1%
331	Petroleum benzine	*	1%	1%
332	Sodium sesquicarbonate	533-96-0	1%	1%
333	Selenium and its compounds	*	1%	0.1%
334	2-tert-Butylimino-3-isopropyl-5-phenyltetrahydro-4H-1,3,5-thiadiazin-4-one (alias: Buprofezin)	69327-76-0	1%	1%
335	Thallium and its water-soluble compounds	*	0.1%	0.1%
336	Silicon carbide	409-21-2	0.1%	0.1%
337	Tungsten and its water-soluble compounds	*	1%	1%
338	Tantalum and its oxide	*	1%	1%
339	O,O,O',O'-Tetramethyl thiodi(p-phenylene)-dioxy-bis(phosphorothioate) (alias: Temephos)	3383-96-8	1%	1%
340	Thiourea	62-56-6	1%	0.1%
341	4,4'-Thiobis(6-tert-butyl-3-methylphenol)	96-69-5	1%	1%
342	Thiophenol	108-98-5	1%	0.1%
343	O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate (alias: Diazinon)	333-41-5	1%	0.1%
344	O,O-Diethyl ethylthioethyl phosphorothioate (alias: Demeton)	8065-48-3	1%	0.1%
345	O,O-Diethyl O-(6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl) phosphorothioate (alias: Pyridaphenthion)	119-12-0	1%	1%
346	O,O-Diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate (alias: Chlorpyrifos)	2921-88-2	1%	1%
347	O,O-Diethyl O-[4-(methylsulfinyl)phenyl] phosphorothioate (alias: Fensulfothion)	115-90-2	1%	1%
348	O,O-Dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate (alias: Ronnel)	299-84-3	1%	0.1%
349	O,O-Dimethyl O-(3-methyl-4-nitrophenyl) phosphorothioate (alias: Fenitrothion)	122-14-5	1%	1%
350	O,O-Dimethyl O-(3-methyl-4-methylthiophenyl) phosphorothioate (alias: Fenthion)	55-38-9	1%	0.1%
351	Decaborane	17702-41-9	1%	1%
352	Water-soluble iron salts	*	1%	1%
353	1,4,7,8-Tetraaminoanthraquinone (alias: Disperse Blue 1)	2475-45-8	1%	0.1%
354	Tetraethylthiuram disulfide (alias: Disulfiram)	97-77-8	1%	0.1%
355	Tetraethyl diphosphate (alias: TEPP)	107-49-3	1%	1%
356	Tetraethoxysilane	78-10-4	1%	1%
357	1,1,2,2-Tetrachloroethane (alias: Tetrachloroacetylene)	79-34-5	1%	0.1%
358	N-(1,1,2,2-Tetrachloroethylthio)-1,2,3,6-tetrahydrophthalimide; N-(1,1,2,2-Tetrachloroethylthio)-3a,4,7,7a-tetrahydrophthalimide (alias: Captafol)	2425-06-1	0.1%	0.1%
359	Tetrachloroethylene (alias: Perchloroethylene)	127-18-4	0.1%	0.1%
360	4,5,6,7-Tetrachloro-1,3-dihydrobenzo[c]furan-2-one; 4,5,6,7-Tetrachloro-(3H)-benzo[c]furan-2-one (alias: Fthalide)	27355-22-2	1%	1%
361	Tetrachlorodifluoroethane (alias: CFC-112)	76-12-0	1%	1%
362	2,3,7,8-Tetrachlorodibenzo[b,e][1,4]dioxin	1746-01-6	0.1%	0.1%
363	Tetrachloronaphthalene	1335-88-2	1%	1%
364	Tetrasodium 3,3'-[(3,3'-dimethyl-4,4'-biphenylylene)bis(azo)]bis[5-amino-4-hydroxy-2,7-naphthalenedisulfonate] (alias: Trypan blue)	72-57-1	1%	0.1%
365	Tetrasodium 3,3'-[(3,3'-dimethoxy-4,4'-biphenylylene)bis(azo)]bis[5-amino-4-hydroxy-2,7-naphthalenedisulfonate] (alias: CI direct blue 15)	2429-74-5	1%	0.1%
366	Tetranitromethane	509-14-8	1%	0.1%
367	Tetrahydrofuran	109-99-9	1%	0.1%
367-2	Tetrahydromethylphthalic anhydride	11070-44-3	1%	0.1%
368	Tetrafluoroethylene	116-14-3	1%	0.1%
369	1,1,2,2-Tetrabromoethane	79-27-6	1%	1%
370	Tetrabromomethane	558-13-4	1%	1%
371	Tetramethylsuccinic acid dinitrile	3333-52-6	1%	1%
372	Tetramethylthiuram disulfide (alias: Thiuram)	137-26-8	0.1%	0.1%
373	Tetramethoxysilane	681-84-5	1%	1%
374	Tetryl	479-45-8	1%	0.1%
375	Terphenyl	26140-60-3	1%	1%
376	Tellurium and its compounds	*	1%	0.1%
377	Turpentine oil	8006-64-2	1%	0.1%

Substances Subject to the Obligations of Labelling and Notification (5)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
378	Terephthalic acid	100-21-0	1%	1%
379	Copper and its compounds	*	1%	0.1%
380	Kerosene	8008-20-6	1%	0.1%
381	Triethanolamine	102-71-6	1%	0.1%
382	Triethylamine	121-44-8	1%	1%
383	Trichloroethane		1%	0.1%
	1,1,1-Trichloroethane	71-55-6	1%	0.1%
	1,1,2-Trichloroethane	79-00-5	1%	0.1%
384	Trichloroethylene	79-01-6	0.1%	0.1%
385	Trichloroacetic acid	76-03-9	1%	0.1%
386	1,1,2-Trichloro-1,2,2-trifluoroethane; CFC-113	76-13-1	1%	1%
387	Trichloronaphthalene	1321-65-9	1%	1%
388	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane (alias: DDT)	50-29-3	0.1%	0.1%
389	1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane (alias: Methoxychlor)	72-43-5	1%	0.1%
390	2,4,5-Trichlorophenoxyacetic acid	93-76-5	0.3%	0.1%
391	Trichlorofluoromethane (alias: CFC-11)	75-69-4	1%	0.1%
392	1,2,3-Trichloropropane	96-18-4	0.1%	0.1%
393	1,2,4-Trichlorobenzene	120-82-1	1%	1%
394	Trichloromethylsulfenyl chloride	594-42-3	1%	1%
395	N-(Trichloromethylthio)-1,2,3,6-tetrahydrophthalimide; N-(Trichloromethylthio)-3a,4,7,7a-tetrahydrophthalimide (alias: Captan)	133-06-2	1%	0.1%
396	Tricyclohexyltin hydroxide	13121-70-5	1%	1%
397	1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	0.1%	0.1%
398	Tris(N,N-dimethyldithiocarbamate)iron (alias: Ferbam)	14484-64-1	1%	0.1%
399	Trinitrotoluene	118-96-7	1%	0.1%
400	Triphenylamine	603-34-9	1%	1%
401	Tribromomethane	75-25-2	1%	0.1%
402	2-Trimethylacetyl-1,3-indandione	83-26-1	1%	1%
403	Trimethylamine	75-50-3	1%	1%
404	Trimethylbenzene	25551-13-7	1%	1%
405	Tolylene diisocyanate	26471-62-5, etc.	1%	0.1%
406	Toluidine	26915-12-8	0.1%	0.1%
	o-Toluidine	95-53-4	0.1%	0.1%
	m-Toluidine	108-44-1	0.1%	0.1%
	p-Toluidine	106-49-0	0.1%	0.1%
407	Toluene	108-88-3	0.3%	0.1%
408	Naphthalene	91-20-3	1%	0.1%
409	1-Naphthylthiourea	86-88-4	1%	1%
410	1-Naphthyl-N-methylcarbamate (alias: Carbaryl)	63-25-2	1%	1%
411	Lead and its inorganic compounds	*	0.1%	0.1%
412	Sodium disulfite	7681-57-4	1%	1%
413	Nicotine	54-11-5	1%	0.1%
414	Sulfur dioxide	7446-09-5	1%	1%
415	Chlorine dioxide	10049-04-4	1%	1%
416	Nitrogen dioxide	10102-44-0	1%	0.1%
417	Propylene glycol dinitrate	6423-43-4	1%	1%
418	Nickel	7440-02-0	1%	0.1%
	Nickel compounds	*	0.1%	0.1%
	Nickel carbonyl	13463-39-3	0.1%	0.1%
419	Nitrilotriacetic acid	139-13-9	1%	0.1%
420	5-Nitroacenaphthene	602-87-9	1%	0.1%
421	Nitroethane	79-24-3	1%	1%
422	Nitroglycol	628-96-6	1%	1%
423	Nitroglycerin (*)	55-63-0	—	—
424	Nitrocellulose	9004-70-0	—	—
425	N-Nitrosomorpholine	59-89-2	1%	0.1%
426	Nitrotoluene	1321-12-6	0.1%	0.1%
	o-Nitrotoluene	88-72-2	0.1%	0.1%
	m-Nitrotoluene	99-08-1	0.1%	0.1%
	p-Nitrotoluene	99-99-0	0.1%	0.1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
427	Nitropropane		1%	0.1%
	1-Nitropropane	108-03-2	1%	0.1%
	2-Nitropropane	79-46-9	1%	0.1%
428	Nitrobenzene	98-95-3	1%	0.1%
429	Nitromethane	75-52-5	1%	0.1%
430	n-Butyl lactate	138-22-7	1%	1%
431	Carbon disulfide	75-15-0	0.3%	0.1%
432	Nonane	111-84-2, etc.	1%	1%
433	n-Butylamine	109-73-9	1%	1%
434	n-Butyl ethyl ketone	106-35-4	1%	1%
435	n-Butyl 2,3-epoxypropyl ether	2426-08-6	1%	0.1%
436	Methyl N-[1-(N-n-butylcarbamoyl)-1H-2-benzimidazolyl]carbamate (alias: Benomyl)	17804-35-2	0.1%	0.1%
437	Platinum and its water-soluble salts	*	1%	0.1%
438	Hafnium and its compounds	*	1%	1%
439	p-Anisidine	104-94-9	1%	1%
440	p-Chloroaniline	106-47-8	1%	0.1%
441	p-Dichlorobenzene	106-46-7	0.3%	0.1%
442	p-Dimethylaminoazobenzene	60-11-7	1%	0.1%
443	p-tert-Butyltoluene	98-51-1	0.3%	0.1%
444	p-Nitroaniline	100-01-6	1%	0.1%
445	p-Nitrochlorobenzene	100-00-5	1%	0.1%
446	p-Phenylazoaniline	60-09-3	1%	0.1%
447	p-Benzoquinone	106-51-4	1%	1%
448	p-Methoxyphenol	150-76-5	1%	1%
449	Barium and its water-soluble compounds	*	1%	1%
450	Picric acid	88-89-1	—	—
451	Bis(2,3-epoxypropyl) ether	2238-07-5	1%	1%
452	1,3-Bis[(2,3-epoxypropyl)oxy]benzene	101-90-6	1%	0.1%
453	Bis(2-chloroethyl) ether	111-44-4	1%	1%
454	Bis(2-chloroethyl) sulfide (alias: Mustard gas)	505-60-2	0.1%	0.1%
455	N,N-Bis(2-chloroethyl)methylamine N-oxide	126-85-2	0.1%	0.1%
456	O,O,O',O'-Tetraethyl S,S'-methylene bis (phosphorodithioate) (alias: Ethion)	563-12-2	1%	1%
457	Bis(2-dimethylaminoethyl) ether	3033-62-3	1%	1%
458	Arsenic and its compounds	*	0.1%	0.1%
459	Hydrazine	302-01-2	1%	0.1%
460	Hydrazine monohydrate	7803-57-8	1%	0.1%
461	Hydroquinone	123-31-9	0.1%	0.1%
462	4-Vinyl-1-cyclohexene	100-40-3	1%	0.1%
463	4-Vinylcyclohexene dioxide	106-87-6	1%	0.1%
464	Vinyltoluene	25013-15-4	1%	1%
464-2	N-Vinyl-2-pyrrolidone	88-12-0	1%	0.1%
465	Biphenyl	92-52-4	1%	0.1%
466	Piperazine dihydrochloride	142-64-3	1%	1%
467	Pyridine	110-86-1	1%	0.1%
468	Pyrethrum	8003-34-7	1%	0.1%
468-2	Phenyl isocyanate	103-71-9	1%	0.1%
469	Phenyloxirane	96-09-3	0.1%	0.1%
470	Phenylhydrazine	100-63-0	1%	0.1%
471	Phenylphosphine	638-21-1	1%	0.1%
472	Phenylenediamine	25265-76-3	1%	0.1%
	o-Phenylenediamine	95-54-5	1%	0.1%
	m-Phenylenediamine	108-45-2	1%	0.1%
	p-Phenylenediamine	106-50-3	1%	0.1%
473	Phenothiazine	92-84-2	1%	1%
474	Phenol	108-95-2	0.1%	0.1%
475	Ferrovanadium	12604-58-9	1%	1%
476	1,3-Butadiene	106-99-0	0.1%	0.1%
477	Butanol		1%	0.1%
	1-Butanol	71-36-3	1%	0.1%
	2-Butanol	78-92-2	1%	0.1%
	Isobutanol	78-83-1	1%	0.1%
	tert-Butanol	75-65-0	1%	0.1%

Substances Subject to the Obligations of Labelling and Notification (6)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
478	Diethyl phthalate	84-66-2	1%	0.1%
479	Di-n-butyl phthalate	84-74-2	0.3%	0.1%
480	Dimethyl phthalate	131-11-3	1%	1%
481	Bis (2-ethylhexyl) phthalate (alias: DEHP)	117-81-7	0.3%	0.1%
482	Butane	106-97-8, etc.	1%	1%
482-2	2,3-Butanedione	431-03-8	1%	0.1%
483	1-Butanethiol	109-79-5	1%	1%
484	Carbonyl fluoride	353-50-4	1%	1%
485	Vinylidene fluoride	75-38-7	1%	1%
486	Vinyl fluoride	75-02-5	0.1%	0.1%
487	Fluorine and its water-soluble inorganic compounds	*	1%	0.1%
	Hydrogen fluoride	7664-39-3	1%	0.1%
488	2-Butenal	123-73-9	0.1%	0.1%
488-2	Butene	25167-67-3	1%	1%
	1-Butene	106-98-9	1%	1%
	2-Butene	107-01-7, etc.	1%	1%
	Isobutene	115-11-7	1%	1%
489	Sodium fluoroacetate	62-74-8	1%	1%
490	Furfural	98-01-1	1%	0.1%
491	Furfuryl alcohol	98-00-0	1%	1%
492	1,3-Propanesultone	1120-71-4	0.1%	0.1%
492-2	Propionaldehyde	123-38-6	1%	1%
493	Propionic acid	79-09-4	1%	1%
494	Propyl alcohol		1%	0.1%
	n-Propyl alcohol	71-23-8	1%	0.1%
	Isopropyl alcohol	67-63-0	1%	0.1%
495	Propylenimine	75-55-8	1%	0.1%
496	Propylene glycol monomethyl ether	107-98-2	1%	1%
497	2-Propyn-1-ol	107-19-7	1%	1%
497-2	Propene	115-07-1	1%	1%
498	Bromoethylene	593-60-2	0.1%	0.1%
499	2-Bromo-2-chloro-1,1,1-trifluoroethane (alias: Halothane)	151-67-7	1%	0.1%
500	Bromochloromethane	74-97-5	1%	1%
501	Bromodichloromethane	75-27-4	1%	0.1%
502	5-Bromo-3-sec-butyl-6-methyl-2,4(1H,3H)-pyrimidinedione (alias: Bromacil)	314-40-9	1%	0.1%
503	Bromotrifluoromethane	75-63-8	1%	1%
503-2	1-Bromopropane	106-94-5	1%	0.1%
504	2-Bromopropane	75-26-3	0.3%	0.1%
504-2	3-Bromo-1-propene (alias: Allyl bromide)	106-95-6	1%	1%
505	Hexachloroethane	67-72-1	1%	0.1%
506	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4, 4a, 5, 6, 7, 8, 8a-octahydro-endo-1,4-exo-5,8-dimethanonaphthalene (alias: Dieldrin)	60-57-1	0.3%	0.1%
507	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4, 4a, 5, 6, 7, 8, 8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene (alias: Endrin)	72-20-8	1%	1%
508	1,2,3,4,5,6-Hexachlorocyclohexane (alias: Lindane)	608-73-1 58-89-9	1%	0.1%
509	Hexachlorocyclopentadiene	77-47-4	1%	0.1%
510	Hexachloronaphthalene	1335-87-1	1%	1%
511	1,4,5,6,7,7-Hexachlorobicyclo [2.2.1]-5-heptene-2,3-dicarboxylic acid (alias: Chlorendic acid)	115-28-6	1%	0.1%
512	1,2,3,4,10,10-Hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene (alias: Aldrin)	309-00-2	1%	0.1%
513	Hexachlorohexahydromethanobenzodioxathiepino xide; 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3-oxide (alias: Benzoepin)	115-29-7	1%	1%
514	Hexachlorobenzene	118-74-1	0.3%	0.1%
515	Hexahydro-1,3,5-trinitro-1,3,5-triazine (alias: Cyclonite)	121-82-4	1%	1%
516	Hexafluoroacetone	684-16-2	1%	0.1%
516-2	Trisodium hexafluoroaluminate	13775-53-6	1%	1%
516-3	Hexafluoropropene	116-15-4	1%	1%
517	Hexamethylphosphoric triamide	680-31-9	0.1%	0.1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
518	Hexamethylenediamine	124-09-4	1%	0.1%
519	Hexamethylene diisocyanate	822-06-0	1%	0.1%
520	Hexane	110-54-3, etc.	1%	0.1%
	n-Hexane	110-54-3	1%	0.1%
521	1-Hexene	592-41-6	1%	1%
522	β-Butyrolactone	3068-88-0, etc.	1%	0.1%
523	β-Propiolactone	57-57-8	0.1%	0.1%
524	1,4,5,6,7,8,8-Heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene (alias: Heptachlor epoxide)	1024-57-3	0.3%	0.1%
525	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene (alias: Heptachlor)	76-44-8	0.3%	0.1%
526	Heptane	142-82-5, etc.	1%	1%
527	Ammonium peroxodisulfate	7727-54-0	1%	0.1%
528	Potassium peroxodisulfate	7727-21-1	1%	0.1%
529	Sodium peroxodisulfate	7775-27-1	1%	0.1%
530	Perfluorooctanoic acid	335-67-1	0.3%	0.1%
	Perfluorooctanoic acid ammonium salt	3825-26-1	1%	0.1%
531	Benzene	71-43-2	0.1%	0.1%
532	1,2,4-Benzenetricarboxylic 1,2-anhydride	552-30-7	1%	0.1%
533	Benzo[a]anthracene	56-55-3	1%	0.1%
534	Benzo[a]pyrene	50-32-8	0.1%	0.1%
535	Benzofuran	271-89-6	1%	0.1%
536	Benzo[e]fluoranthene	205-99-2	0.1%	0.1%
537	Pentachloronaphthalene	1321-64-8	1%	1%
538	Pentachloronitrobenzene	82-68-8	1%	0.1%
539	Pentachlorophenol (alias: PCP)	87-86-5	0.3%	0.1%
539	Pentachlorophenol (alias: PCP) sodium salts	131-52-2	0.3%	0.1%
540	1-Pentanal	110-62-3	1%	1%
541	1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene (alias: PFIB)	382-21-8	1%	1%
542	Pentaborane	19624-22-7	1%	1%
543	Pentane	109-66-0, etc.	1%	1%
544	Boric acid	10043-35-3	0.3%	0.1%
	Sodium borate	1330-43-4	1%	0.1%
545	Phosgene	75-44-5	1%	1%
545-2	Portlamd cement	65997-15-1	1%	1%
546	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	1%	0.1%
547	Formamide	75-12-7	0.3%	0.1%
548	Formaldehyde	50-00-0	0.1%	0.1%
549	Magenta	632-99-5	1%	0.1%
550	Manganese	7439-96-5	0.3%	0.1%
	Manganese inorganic compounds	*	1%	0.1%
551	Mineral spirits (include mineral thinner, petroleum spirits, white spirits and mineral turpentine)	64742-47-8	1%	1%
552	Acetic anhydride	108-24-7	1%	1%
553	Phthalic anhydride	85-44-9	1%	0.1%
554	Maleic anhydride	108-31-6	1%	0.1%
555	m-Xylylenediamine	1477-55-0	1%	0.1%
556	Methacrylic acid	79-41-4	1%	1%
557	Methyl methacrylate	80-62-6	1%	0.1%
558	Methacrylonitrile	126-98-7	0.3%	0.1%
559	m-Dicyanobenzene	626-17-5	1%	1%
560	Methanol	67-56-1	0.3%	0.1%
561	Ethyl methanesulfonate	62-50-0	0.1%	0.1%
562	Methyl methanesulfonate	66-27-3	0.1%	0.1%
563	Methylal	109-87-5	1%	1%
564	Methylacetylene	74-99-7	1%	1%
565	N-Methylaniline	100-61-8	1%	1%
566	2,2'-[[4-(Methylamino)-3-nitrophenyl]amino] diethanol (alias: HC blue No.1)	2784-94-3	1%	0.1%
567	O-(4-tert-Butyl-2-chlorophenyl) O-methyl N-methylaminophosphonate (alias: Crufomate)	299-86-5	1%	1%
568	Methylamine	74-89-5	0.1%	0.1%

Substances Subject to the Obligations of Labelling and Notification (7)

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
569	Methyl isobutyl ketone	108-10-1	1%	0.1%
570	Methyl ethyl ketone	78-93-3	1%	1%
571	2-Isopropoxyphenyl N-methylcarbamate (alias: Propoxur)	114-26-1	0.1%	0.1%
572	2,3-Dihydro-2,2-dimethyl-7-benzo[b]furanyl N-methylcarbamate (alias: Carbofuran)	1563-66-2	1%	1%
573	2-sec-Butylphenyl N-methylcarbamate (alias: Fenobucarb)	3766-81-2	1%	1%
574	Methylcyclohexanol	25639-42-3, etc.	1%	1%
575	Methylcyclohexanone	1331-22-2, etc.	1%	1%
576	Methylcyclohexane	108-87-2	1%	1%
577	2-Methylcyclopentadienyl manganese tricarbonyl	12108-13-3	1%	1%
578	2-Methyl-4,6-dinitrophenol	534-52-1	0.1%	0.1%
579	2-Methyl-3,5-dinitrobenzamide (alias: Dinitolmide)	148-01-6	1%	1%
580	Methyl tert-butyl ether (alias: MTBE)	1634-04-4	1%	0.1%
581	5-Methyl-1,2,4-triazolo[3,4-b]benzothiazole (alias: Tricyclazole)	41814-78-2	1%	1%
582	2-Methyl-4-(2-tolylazo)aniline	97-56-3	0.1%	0.1%
582-2	Methylnaphthalene		1%	1%
	1-Methylnaphthalene	90-12-0	1%	1%
	2-Methylnaphthalene	91-57-6	1%	1%
582-3	2-Methyl-5-nitroaniline	99-55-8	1%	0.1%
583	2-Methyl-1-nitroanthraquinone	129-15-7	1%	0.1%
584	Ethyl N-methyl-N-nitrosocarbamate	615-53-2	1%	0.1%
585	Methyl n-butyl ketone	591-78-6	1%	1%
586	Methyl n-pentyl ketone	110-43-0	1%	1%
587	Methylhydrazine	60-34-4	1%	0.1%
588	Methyl vinyl ketone	78-94-4	1%	0.1%
588-2	N-Methyl-2-pyrrolidone	872-50-4	1%	0.1%
589	1-[(2-Methylphenyl)azo]-2-naphthol (alias: Oil orange SS)	2646-17-5	1%	0.1%
590	Methyl propyl ketone	107-87-9	1%	1%
591	5-Methyl-2-hexanone	110-12-3	1%	1%
592	4-Methyl-2-pentanol	108-11-2	1%	1%
593	2-Methyl-2,4-pentanediol	107-41-5	1%	1%
594	2-Methyl-N-[3-(1-methylethoxy)phenyl] benzamide (alias: Mepronil)	55814-41-0	1%	1%
595	S-Methyl N-(methylcarbamoyloxy)thioacetimidate (alias: Methomyl)	16752-77-5	1%	1%
596	Methyl mercaptan	74-93-1	1%	1%
597	4,4'-Methylenedianiline	101-77-9	1%	0.1%
598	Methylenebis (4,1-cyclohexylene) diisocyanate	5124-30-1	1%	0.1%
599	Methylenebis (4,1-phenylene) diisocyanate (alias: MDI)	101-68-8	1%	0.1%
600	2-Methoxy-5-methylaniline	120-71-8	1%	0.1%
601	1-(2-Methoxy-2-methylethoxy)-2-propanol	34590-94-8	1%	1%
601-2	2-methoxy-2-methylbutane	994-05-8	1%	0.1%
602	Mercaptoacetic acid	68-11-1	1%	0.1%
603	Molybdenum and its compounds	*	1%	0.1%
	Molybdenum (VI) oxide	1313-27-5	1%	0.1%
604	Morpholine	110-91-8	1%	1%
606	Iodine	7553-56-2	1%	0.1%
	Iodides	*	1%	1%
	Methyl iodide	74-88-4	1%	1%
607	Iodoform	75-47-8	1%	1%
607-2	Carbonyl sulphide	463-58-1	1%	1%
608	Dimethyl sulfide	75-18-3	1%	1%
609	Hydrogen sulfide	7783-06-4	1%	1%
610	Sodium hydrogensulfide	16721-80-5	1%	1%
611	Sodium sulfide	1313-82-2	1%	1%
612	Phosphorus sulfide	1314-80-3, etc.	1%	1%
613	Sulfuric acid	7664-93-9	1%	1%
614	Diisopropyl sulfate	2973-10-6	1%	0.1%
615	Diethyl sulfate	64-67-5	0.1%	0.1%
616	Dimethyl sulfate	77-78-1	0.1%	0.1%

No.	Substance name	CAS registry number	Cut-off value for labelling	Cut-off value for SDS
617	Hydrogen phosphide	7803-51-2	1%	1%
618	Phosphoric acid	7664-38-2	1%	1%
619	Di-n-butyl phosphate	107-66-4	1%	1%
620	Di-n-butyl phenyl phosphate	2528-36-1	1%	1%
621	1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate (alias: Naled)	300-76-5	1%	0.1%
622	Dimethyl (E)-1-(N,N-dimethylcarbamoyl)-1-propen-2-yl phosphate (alias: Dicrotophos)	141-66-2	1%	1%
623	Dimethyl (E)-1-(N-methylcarbamoyl)-1-propen-2-yl phosphate (alias: Monocrotophos)	6923-22-4	1%	1%
624	Dimethyl 1-methoxycarbonyl-1-propen-2-yl phosphate (alias: Mevinphos)	7786-34-7	1%	1%
625	Tri (o-tolyl) phosphate	78-30-8	1%	1%
626	Tris (2,3-dibromopropyl) phosphate	126-72-7	0.1%	0.1%
627	Tri-n-butyl phosphate	126-73-8	1%	1%
628	Triphenyl phosphate	115-86-6	1%	1%
629	Resorcinol	108-46-3	1%	0.1%
630	Hexachlorobutadiene	87-68-3	1%	0.1%
631	Rhodium and its compounds	*	1%	0.1%
632	Rosin	8050-09-7	1%	0.1%
633	Rotenone	83-79-4	1%	1%

* No. 312 and No. 605 are missing.
* "-" means that the cut-off value has not been set.
* With regard to preparations (mixtures) or other substances containing nitroglycerin, those desensitized with desensitizing agent having nonvolatility of 98% or more wherein the content of nitroglycerin is less than 0.1% are excluded.
* CAS registry numbers are just for reference. Structural isomers may be assigned with different CAS registry numbers, but whether the substance is subject to the obligation is to be judged based on the substance name.
* "*" in the column of CAS registry number means that a CAS registry number cannot be identified due to such reasons as the existence of multiple applicable substances.