

## **Hazardous Substances (Hazard Classification) Notice 2020**

This notice is issued by the Environmental Protection Authority (“Authority”) under section 74 of the Hazardous Substances and New Organisms Act 1996 (“Act”). It is issued in accordance with section 76C of the Act, having had regard to the matters specified in section 76C(2).

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### **Objective of Notice**

The purpose of this notice is to establish the hazard classification system for hazardous substances and gases under pressure by reference to the United Nations Globally Harmonised System of Classification and Labelling of Chemicals, 7th Revised Edition, 2017 (GHS 7), and by adopting classification categories for certain substances that are ecotoxic to the terrestrial environment.

This notice replaces the Hazardous Substances (Classification) Notice 2017 ([New Zealand Gazette, Notice No. 2017-au5634](#)) and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 ([New Zealand Gazette, Notice No. 2017-au5634](#)).

### **Extent of Consultation**

The Authority publicly notified its intention to issue this notice on 29 October 2019 by publishing a consultation document on its website. It invited comments by 9 January 2020. The consultation document was also sent to relevant persons in accordance with section 76C(1)(c) of the Act, and other interested parties. Comments were received and taken into account by the Authority during the drafting of this notice.

### **Documents Incorporated by Reference**

Information on how to access material incorporated by reference in this notice is available on the EPA website (<http://www.epa.govt.nz/>).

Documents that are incorporated by reference in this notice are also available, on request, for inspection free of charge during normal business hours at the head office of the Authority.

### Further Information About EPA Notices

EPA notices are legislative instruments that are administered by the Authority. They are subject to the Legislation Act 2012 (“Legislation Act”) and are classed as disallowable instruments. This means that the notice must be tabled in the House of Representatives and the House of Representatives may, by resolution, disallow the notice. The Regulations Review Committee is the select committee responsible for considering instruments such as this notice under the Legislation Act.

## Part A: General

### 1. Title

This is the Hazardous Substances (Hazard Classification) Notice 2020.

### 2. Commencement

This notice comes into force on **30 April 2021**.

### 3. Application

This notice establishes the hazard classification system for hazardous substances for the purposes of—

- a. the Act and any regulations in force under the Act, EPA notices, group standards and approvals made under the Act; and
- b. any enactment or rule of law that relies on the hazard classification system for hazardous substances under the Act or as established under an EPA notice.

### 4. Definitions

(1) In this notice, unless the context otherwise requires—

**Act** means the Hazardous Substances and New Organisms Act 1996.

**approval** means an approval for a hazardous substance given under Part 5 of the Act.

**deemed approval** means an approval for a hazardous substance or group of hazardous substances deemed to have been given under section 29 of the Act by—

- a. the Hazardous Substances (Fireworks, Safety Ammunition, and Other Explosives Transfer) Regulations 2003;  
or
- b. a notice issued under section 160A that is in force immediately before the commencement of Schedule 7 of the Act.

**gas** means a substance which—

- a. at 50°C has a vapour pressure greater than 300kPa (absolute); or
- b. is completely gaseous at 20°C at a standard pressure of 101.3kPa.

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 7th Revised Edition, 2017, published by the United Nations.

**hazard class** means the nature of a physical, health or environmental hazard as specified in Schedule 1.

**hazard grouping** means a hazard grouping as specified in Schedule 1 (physical hazards, health hazards or environmental hazards).

**liquid** means a substance or mixture which at 50°C has a vapour pressure of not more than 300kPa (3 bar), which is not completely gaseous at 20°C and at a standard pressure of 101.3kPa, and which has a melting point or initial melting point of 20°C or less at a standard pressure of 101.3kPa. A viscous substance or mixture for which a specific melting point cannot be determined shall be subjected to the ASTM D 4359-90 test; or to the test for determining fluidity (penetrometer test) prescribed in section 2.3.4 of Annex A of the European Agreement concerning the International Carriage of Dangerous Goods by Road.

**mixture** means a combination of, or a solution composed of, two or more substances.

**solid** means a substance that is neither a liquid nor a gas.

**UN Model Regulations** means the 21st Revised Edition of the Recommendations on the Transport of Dangerous Goods Model Regulations, 2019, published by the United Nations.

(2) Any term or expression that is defined in the Act and used, but not defined in this notice, has the same meaning as in the Act.

## Part B: Substances That Are Not Hazardous Substances

### 5. Minimum Degrees of Hazard

A substance is not a hazardous substance for the purposes of the Act unless it can be classified in accordance with this notice.

### 6. Exception Relating to Medicines

(1) A medicine is not a hazardous substance for the purposes of the Act unless an applicable approval or deemed approval is in force immediately before the commencement of this notice.

(2) Despite subclause (1), a medicine must be treated as a hazardous substance if it can be classified as a hazardous substance under the hazard classification system described in this notice and—

- a. it is a substance to which section 3(1)(b)(i) of the Medicines Act 1981 applies; or
- b. an application is made to register that medicine as a trade name product under the Agricultural Compounds and Veterinary Medicines Act 1997.

(3) In this clause, medicine has the same meaning as in section 3(1) of the Medicines Act 1981, except that it does not include a gas contained at a pressure greater than 170kPa in a container larger than 100ml, at any time after that gas becomes so contained and before the time the gas is first administered to a person for a therapeutic purpose.

### 7. Exception Relating to Food

(1) A food is not a hazardous substance for the purposes of the Act, unless an applicable approval or a deemed approval is in force immediately before the commencement of this notice.

(2) In this clause—

**food** has the same meaning as in section 9 of the Food Act 2014, except that it does not include a food additive if that food additive has not been mixed with or added to any other food or drink.

**food additive** means a substance added to food and regulated under an adopted joint food standard as defined in section 397 of the Food Act 2014.

### 8. Exception Relating to Psychoactive Substances

(1) A psychoactive substance is not a hazardous substance for the purposes of the Act if the substance—

- a. is an approved product; or
- b. is able to be classified as a hazardous substance under the hazard classification system described in this notice by reason only of its psychoactive properties.

(2) In this clause—

**approved product** has the same meaning as in section 8 of the Psychoactive Substances Act 2013.

**psychoactive effect** has the same meaning as in section 8 of the Psychoactive Substances Act 2013.

**psychoactive properties**, in relation to a substance, means properties that make the substance capable of inducing a psychoactive effect (by any means) in an individual who uses the substance.

**psychoactive substance** has the same meaning as in section 9 of the Psychoactive Substances Act 2013.

## Part C: Hazard Classification System

### 9. Hazard Classification System

(1) The hazard classification system is the system described in clauses 10 to 15.

(2) The hazard classification system includes hazard classes, which must be taken to include all specific hazard classifications that fall under the hazard class.

(3) A reference to a hazardous substance having a hazard class or hazard classification means—

- a. in relation to a substance that does not have an approval, that it meets the criteria for that hazard class or hazard classification under this notice; or
- b. in relation to a substance that has an approval, that the EPA has given it a hazard classification in accordance with the criteria set out in this notice.

(4) For the purpose of identifying a hazardous substance according to its hazard grouping, hazard class or hazard classification, including in any regulations in force under the Act, EPA notice, group standard, approval, other enactment or rule of law, it may be referred to in accordance with Schedule 1.

## **10. Hazardous Substance Classifications Under GHS**

(1) For the purposes of clause 9, the classes and categories of hazardous substances in the GHS, as modified by this notice, are part of the hazard classification system.

(2) A hazardous substance is correctly classified if it is classified in accordance with the GHS as modified by this notice, or in accordance with clause 15.

(3) For the purpose of subclause (2)—

- a. the definitions in the GHS apply;
- b. however, to the extent of any inconsistency with a provision in this notice, the provision of this notice prevails.

(4) Despite subclauses (1) and (2), the following classes or categories in the GHS are not part of the hazard classification system:

- a. acute oral toxicity Category 5;
- b. acute dermal toxicity Category 5;
- c. acute inhalation toxicity Category 5;
- d. skin irritation Category 3;
- e. aspiration hazard Category 2;
- f. hazardous to the aquatic environment acute Categories 2 and 3;
- g. hazardous to the ozone layer.

(5) The GHS category eye irritation Category 2 is part of the hazard classification system, however—

- a. the subcategories 2A and 2B are not adopted;
- b. substances that would fall into those subcategories fall into eye irritation Category 2.

## **11. Gases Under Pressure**

For the avoidance of doubt, the following GHS classifications apply for the purpose of establishing hazard classifications for gases under pressure under section 74(c) of the Act, whether or not the properties of any gas that is under pressure are intrinsically hazardous:

- a. gases under pressure;
- b. aerosol Category 3.

## **12. Compatibility Groups for Explosives (Class 1) Form Part of the Hazard Classification System**

(1) Compatibility groups for the hazard class explosives (class 1) form part of the hazard classification system.

(2) For the purposes of subclause (1)—

- a. class 1 explosives in the UN Model Regulations equate with the class explosives in the GHS; and
- b. a division within class 1 in the UN Model Regulations equates with the corresponding division in the class explosives in the GHS; and
- c. the compatibility groups relating to a division in the UN Model Regulations apply to the corresponding division within the hazard class explosives (class 1) established under this notice by reference to the GHS.

## **13. Classification of Mixtures**

Where a hazardous substance that is classified in accordance with clause 10 is a mixture, the criteria for classifying the mixture are as set out in the GHS, except in so far as the tables in Schedule 2 replace the corresponding tables in the GHS.

## **14. Multiplying Factors for Mixture Ingredients Classified as Hazardous to the Aquatic Environment Acute Category 1 or Chronic Category 1**

For the avoidance of doubt, when using the summation method described in Part 4 of the GHS to classify mixtures containing ingredients that are classified as hazardous to the aquatic environment acute Category 1 or chronic Category 1, multiplying factors must be used in accordance with the provisions of Part 4.1.3.5.5.5 of the GHS.

## **15. Hazard Classifications for Agrichemicals That are Hazardous to the Terrestrial Environment**

(1) A substance that is hazardous to the terrestrial environment is classified as a hazardous substance only if it is—

- a. an agrichemical; or

b. an active ingredient used in the manufacture of an agrichemical that is a pesticide or a veterinary medicine.

(2) In this clause—

**active ingredient** means the ingredient or ingredients in a formulated product that is/are primarily responsible for the biological or other effects that make the product an agrichemical, and is distinct from other ingredients of the formulated product such as adjuvants or additives.

**agrichemical** means a substance used or intended for use in the direct management of plants and animals, or to be applied to the land, place, or water on or in which the plants and animals are managed, for the purposes of—

- a. managing or eradicating pests, including vertebrate pests; or
- b. maintaining, promoting, or regulating plant or animal health, productivity, performance or reproduction; or
- c. enhancing the effectiveness of an agrichemical used for the treatment of plants or animals; or
- d. mitigating environmental, sustainability, or climate change impacts; and

for the avoidance of doubt:

- a. includes any veterinary medicine, pesticide adjuvant, fertiliser, plant growth regulator, fumigant or domestic pesticide; and
- b. excludes any timber treatment chemical, antistain chemical and antifouling paint.

**biocidal action**, in relation to a substance, means causing mortality, inhibited growth, or inhibited reproduction in an organism.

**EC<sub>50</sub>** means the median effect concentration, being a statistically derived concentration of a substance that can be expected to cause—

- a. an adverse effect in 50% of organisms; or
- b. a 50% reduction in growth or in the growth rate of organisms.

**hazardous to soil organisms**, in relation to a substance, means—

- a. data for the substance indicates that a plant or soil invertebrate EC<sub>50</sub> is 100 milligrams or less of the substance per kilogram of dry weight of soil over a 14-day exposure period, as a result of exposure to the substance; or
- b. data for the substance indicates a 25% reduction in microbial respiration or microbial nitrification at 100 milligrams or less of the substance per kilogram of dry weight of soil after a 28-day exposure period, as a result of exposure to the substance.

**hazardous to terrestrial invertebrates**, in relation to a substance, means data for the substance indicates an acute oral or contact LD<sub>50</sub> of 25 micrograms or less of the substance per terrestrial invertebrate, as a result of exposure to the substance.

**hazardous to terrestrial vertebrates**, in relation to a substance, means—

- a. data for the substance indicates an acute avian or mammalian oral or dermal LD<sub>50</sub> of 2000 milligrams or less of the substance per kilogram of body weight, as a result of exposure to the substance; or
- b. data for the substance indicates an acute avian or mammalian LC<sub>50</sub> of 5000 parts or less of the substance per million in the diet, as a result of exposure to the substance; or
- c. data for the substance indicates a chronic avian or mammalian MATC of 100 parts or less of the substance per million in the diet, as a result of exposure to the substance.

**hazardous to the aquatic environment**, in relation to a substance, means having a hazard classification in the hazard class hazardous to the aquatic environment, in accordance with the GHS as adopted in this notice.

**hazardous to the terrestrial environment**, in relation to a substance, means—

- a. hazardous to soil organisms; or
- b. hazardous to terrestrial vertebrates; or
- c. hazardous to terrestrial invertebrates; or
- d. designed for biocidal action, except where the substance:

- i. is hazardous to the aquatic environment; or
- ii. meets the criteria specified in (a) to (c) above; or
- iii. is designed for biocidal action against an internal organism in humans or in other vertebrates, a virus, a protozoan or a bacterium.

**LC<sub>50</sub>** means the median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of organisms.

**LD<sub>50</sub>** means the median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of organisms.

**LOEC** means the lowest observed effect concentration, being the lowest concentration of a substance that produces a significant ecotoxic effect in an organism or in an organism population.

**MATC** means the maximum acceptable toxicant concentration, being the geometric mean of the NOEC and LOEC where the NOEC and LOEC are derived from the same study.

**NOEC** means the no observed effect concentration, being the highest concentration of a substance that does not produce a significant ecotoxic effect in an organism or in an organism population.

**significant ecotoxic effect** means an ecotoxicologically significant change in an organism or in an organism population observed during the study where the probability that the change is different from any recognised background history of change or from the value in a recognised unexposed control organism population is greater than 0.95 (equivalent to P (probability) of 0.05 or less).

#### Part D: Savings Provision

#### 16. Correlations in Hazard Classification System Where Other Laws Reference Pre-2021 HSNO Classifications

(1) If an enactment, rule of law, or a requirement, power or duty imposed or conferred under the authority of any enactment refers to a pre-2021 HSNO class, subclass or classification:

- a. a reference to an pre-2021 HSNO classification must be treated as a reference to an equivalent classification under this notice as provided in the correlation table in Schedule 3; and
- b. a reference to HSNO classes 1, 2, 3, 4, 5, 6, 8, or 9 or to particular subclasses (for example, 6.1) must be treated as a reference to all equivalent hazard classifications under this notice in that class or subclass as provided in the correlation table in Schedule 3.

(2) An enactment, rule of law, or a requirement, power or duty imposed or conferred under the authority of any enactment that refers to any of the following instruments must, for the purpose of any matter relating to the hazard classification of a hazardous substance, be treated as referring to this notice:

- a. the Hazardous Substances (Classification) Notice 2017 ([New Zealand Gazette, Notice No. 2017-au5634](#)) or the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 ([New Zealand Gazette, Notice No. 2017-au5634](#)); or
- b. the Hazardous Substances (Classification) Regulations 2001 or the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

(3) Nothing in this clause purports to limit section 212(3) of the Health and Safety at Work Act 2015.

(4) In this clause—

**pre-2021 HSNO classification** means the relevant classification in column 1 of the correlation tables in Schedule 3 that applied immediately before the commencement of this clause.

**equivalent classification under this notice**, in relation to an pre-2021 HSNO classification, means the relevant classification in column 2 of the correlation tables in Schedule 3.

#### Schedule 1: References to Hazard Classifications

clause 9(4)

The purpose of this schedule is to provide a list of the hazard groupings, hazard classes and hazard classifications that make up the hazard classification system set up in this notice. This schedule must be read in accordance with the hazard classification system set up in this notice. For the avoidance of doubt, this schedule is not intended to be a substitute for the hazard classification system.

#### Physical Hazards

NEW ZEALAND GAZETTE

<b>Hazard Class</b>	<b>Hazard Classification</b>
Explosives (class 1)	unstable explosive
	1.1 (A, B, C, D, E, F, G, J, L)
	1.2 (B, C, D, E, F, G, H, J, K, L)
	1.3 (C, F, G, H, J, K, L)
	1.4 (B, C, D, E, F, G, S)
	1.5 (D)
Flammable gases	1.6 (N)
	flammable gas Category 1A
	flammable gas Category 1A pyrophoric gas
	flammable gas Category 1A chemically unstable gas A
	flammable gas Category 1A chemically unstable gas B
	<i>Note: Some flammable gases Category 1A may be additionally classified as pyrophoric and/or chemically unstable.</i>
	flammable gas Category 1B
	flammable gas Category 2
Aerosols	aerosol Category 1
	aerosol Category 2
	aerosol Category 3
Oxidising gases	oxidising gases Category 1
Gases under pressure	compressed gas
	liquefied gas
	refrigerated liquefied gas
	dissolved gas
Flammable liquids	flammable liquids Category 1
	flammable liquids Category 2
	flammable liquids Category 3
	flammable liquids Category 4
Flammable solids	flammable solids Category 1
	flammable solids Category 2
Self-reactive substances and mixtures	self-reactive substances and mixtures Type A
	self-reactive substances and mixtures Type B
	self-reactive substances and mixtures Type C
	self-reactive substances and mixtures Type D
	self-reactive substances and mixtures Type E
	self-reactive substances and mixtures Type F
	self-reactive substances and mixtures Type G
Pyrophoric liquids	pyrophoric liquids Category 1
Pyrophoric solids	pyrophoric solids Category 1
Self-heating substances and mixtures	self-heating substances and mixtures Category 1
	self-heating substances and mixtures Category 2
Substances and mixtures which, in contact with water, emit flammable gases	substances and mixtures which, in contact with water, emit flammable gases Category 1
	substances and mixtures which, in contact with water, emit flammable gases Category 2
	substances and mixtures which, in contact with water, emit flammable gases Category 3
Oxidising liquids	oxidising liquids Category 1
	oxidising liquids Category 2
	oxidising liquids Category 3
Oxidising solids	oxidising solids Category 1
	oxidising solids Category 2
	oxidising solids Category 3
Organic peroxides	organic peroxide Type A
	organic peroxide Type B
	organic peroxide Type C
	organic peroxide Type D
	organic peroxide Type E
	organic peroxide Type F
	organic peroxide Type G
Corrosive to metals	corrosive to metals Category 1
Desensitised explosives	desensitised explosive Category 1
	desensitised explosive Category 2
	desensitised explosive Category 3
	desensitised explosive Category 4

**Health Hazards**

<b>Hazard Class</b>	<b>Hazard Classification</b>
Acute toxicity	acute oral toxicity Category 1
	acute dermal toxicity Category 1
	acute inhalation toxicity Category 1
	acute oral toxicity Category 2
	acute dermal toxicity Category 2
	acute inhalation toxicity Category 2

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	acute oral toxicity Category 3
	acute dermal toxicity Category 3
	acute inhalation toxicity Category 3
	acute oral toxicity Category 4
	acute dermal toxicity Category 4
	acute inhalation toxicity Category 4
	<i>Note: acute toxicity Category 5 has not been adopted</i>
Skin corrosion/irritation	skin corrosion Category 1A
	skin corrosion Category 1B
	skin corrosion Category 1C
	skin irritation Category 2
	<i>Note: skin irritation Category 3 has not been adopted</i>
Serious eye damage/eye irritation	serious eye damage Category 1
	eye irritation Category 2
	<i>Note: the subcategories 2A and 2B have not been adopted</i>
Respiratory or skin sensitisation	respiratory sensitisation Category 1
	respiratory sensitisation Sub-category 1A
	respiratory sensitisation Sub-category 1B
	skin sensitisation Category 1
	skin sensitisation Sub-category 1A
	skin sensitisation Sub-category 1B
Germ cell mutagenicity	germ cell mutagenicity Category 1
	germ cell mutagenicity Category 2
Carcinogenicity	carcinogenicity Category 1
	carcinogenicity Category 2
Reproductive toxicity	reproductive toxicity Category 1
	reproductive toxicity Category 2
	effects on or via lactation
Specific target organ toxicity - single exposure	specific target organ toxicity - single exposure Category 1
	specific target organ toxicity - single exposure Category 2
	specific target organ toxicity - single exposure Category 3
Specific target organ toxicity - repeated exposure	specific target organ toxicity - repeated exposure Category 1
	specific target organ toxicity - repeated exposure Category 2
Aspiration hazard	aspiration hazard Category 1
	<i>Note: aspiration hazard Category 2 has not been adopted</i>

**Environmental Hazards**

<b>Hazard Class</b>	<b>Hazard Classification</b>
Hazardous to the aquatic environment	hazardous to the aquatic environment acute Category 1
	hazardous to the aquatic environment chronic Category 1
	hazardous to the aquatic environment chronic Category 2
	hazardous to the aquatic environment chronic Category 3
	hazardous to the aquatic environment chronic Category 4
	<i>Note: hazardous to the aquatic environment acute Category 2 and acute Category 3 have not been adopted</i>
Hazardous to the terrestrial environment	<i>The EPA has adopted the following non-GHS classifications to classify substances that are hazardous to the terrestrial environment as provided for in clause 15 of this notice.</i>
	hazardous to soil organisms
	hazardous to terrestrial vertebrates
	hazardous to terrestrial invertebrates
	designed for biocidal action

**Schedule 2: Replacement of Certain GHS Tables Relating to Mixtures**

clause 13

The tables in this schedule replace some of the tables in the GHS.

1. The following table sets out the cut-off values/concentration limits of ingredients of a mixture classified as either a respiratory sensitiser or a skin sensitiser that would trigger classification of the mixture.

**Table 1: Classification of Mixtures Containing Respiratory or Skin Sensitisers**

<b>Ingredient classification</b>	<b>Mixture classification</b>		<b>Skin sensitiser Category 1 All physical states</b>
	<b>Respiratory sensitiser Category 1 Solid/liquid</b>	<b>Gas</b>	
Respiratory sensitiser Category 1	≥ 0.1%	≥ 0.1%	
Respiratory sensitiser Sub-category 1A	≥ 0.1%	≥ 0.1%	
Respiratory sensitiser Sub-category 1B	≥ 1.0%	≥ 0.2%	
Skin sensitiser Category 1			≥ 0.1%



Skin sensitiser Sub-category 1A		≥ 0.1%
Skin sensitiser Sub-category 1B		≥ 1.0%

Note 1: Table 1 replaces Table 3.4.5 in the GHS.

Note 2: Sub-categories 1A and 1B, which form part of Category 1, should only be used where data are sufficient to allow the allocation of sensitisers into these sub-categories in accordance with chapter 3.4 of the GHS.

2. The following table sets out the cut-off values/concentration limits of ingredients of a mixture classified as a carcinogen that would trigger classification of the mixture.

**Table 2: Classification of Mixtures Containing Carcinogens**

Ingredient classification	Mixture classification	
	Category 1 carcinogen	Category 2 carcinogen
Category 1 carcinogen	≥ 0.1%	
Category 2 carcinogen		≥ 0.1%

Note: Table 2 replaces Table 3.6.1 in the GHS.

3. The following table sets out the cut-off values/concentration limits of ingredients of a mixture classified as a reproductive toxicant or for effects on or via lactation that would trigger classification of the mixture.

**Table 3: Classification of Mixtures Containing Reproductive Toxicants**

Ingredient classification	Mixture classification		
	Category 1 Reproductive toxicant	Category 2 Reproductive toxicant	Additional category for effects on or via lactation
Category 1 reproductive toxicant	≥ 0.1%		
Category 2 reproductive toxicant		≥ 0.1%	
Additional category for effects on or via lactation			≥ 0.1%

Note: Table 3 replaces Table 3.7.1 in the GHS.

4. The following table sets out the cut-off values/concentration limits of ingredients of a mixture classified as a specific target organ toxicant (single exposure) that would trigger classification of the mixture.

**Table 4: Classification of Mixtures Containing Specific Target Organ Toxicants (Single Exposure)**

Ingredient classification	Mixture classification	
	Category 1 STOT	Category 2 STOT
Category 1 specific target organ toxicant	≥ 10%	1.0 ≤ ingredient < 10%
Category 2 specific target organ toxicant		≥ 1.0 %

Note: Table 4 replaces Table 3.8.2 in the GHS.

5. The following table sets out the cut-off values/concentration limits of ingredients of a mixture classified as a specific target organ toxicant (repeated exposure) that would trigger classification of a mixture.

**Table 5: Classification of Mixtures Containing Specific Target Organ Toxicants (Repeated Exposure)**

Ingredient classification	Mixture classification	
	Category 1 STOT	Category 2 STOT
Category 1 specific target organ toxicant	≥ 10%	1.0 ≤ ingredient < 10%
Category 2 specific target organ toxicant		≥ 1.0%

Note: Table 5 replaces Table 3.9.3 in the GHS.

### Schedule 3: Correlation Tables

clause 16

#### Physical Hazards

Column 1 Pre-2021 HSNO classification	Column 2 Equivalent classification under this notice
<b>Explosives (class 1)</b>	
1.1 (A, B, C, D, E, F, G, J, L)	unstable explosive
1.2 (B, C, D, E, F, G, H, J, K, L)	1.1 (A, B, C, D, E, F, G, J, L)
1.3 (C, F, G, H, J, K, L)	1.2 (B, C, D, E, F, G, H, J, K, L)
1.4 (B, C, D, E, F, G, S)	1.3 (C, F, G, H, J, K, L)
1.5D	1.4 (B, C, D, E, F, G, S)
1.6N	1.5D
<b>Flammable gases</b>	1.6N

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2.1.1A	flammable gas Category 1A flammable gas Category 1A pyrophoric gas flammable gas Category 1A chemically unstable gas A flammable gas Category 1A chemically unstable gas B flammable gas Category 1B <i>Note: Some flammable gases Category 1A may be additionally classified as pyrophoric and/or chemically unstable.</i>
2.1.1B	flammable gas Category 2
<b>Aerosols</b>	
2.1.2A (flammable aerosol)	aerosol Category 1 aerosol Category 2 aerosol Category 3
<b>Gases under pressure</b>	
	compressed gas liquefied gas refrigerated liquefied gas dissolved gas
<b>Flammable liquids</b>	
3.1A	flammable liquids Category 1
3.1B	flammable liquids Category 2
3.1C	flammable liquids Category 3
3.1D	flammable liquids Category 4
<b>Desensitised explosives</b>	
3.2A (liquid) and 4.1.3A (solid)	desensitised explosive Category 1
3.2B (liquid) and 4.1.3B (solid)	desensitised explosive Category 2
3.2C (liquid) and 4.1.3C (solid)	desensitised explosive Category 3 desensitised explosive Category 4
<b>Flammable solids</b>	
4.1.1A	flammable solids Category 1
4.1.1B	flammable solids Category 2
<b>Self-reactive substances and mixtures</b>	
4.1.2A	self-reactive substances and mixtures Type A
4.1.2B	self-reactive substances and mixtures Type B
4.1.2C	self-reactive substances and mixtures Type C
4.1.2D	self-reactive substances and mixtures Type D
4.1.2E	self-reactive substances and mixtures Type E
4.1.2F	self-reactive substances and mixtures Type F
4.1.2G	self-reactive substances and mixtures Type G
<b>Pyrophoric liquids, pyrophoric solids, self-heating substances and mixtures</b>	
4.2A	pyrophoric liquids Category 1, or pyrophoric solids Category 1
4.2B	self-heating substances and mixtures Category 1
4.2C	self-heating substances and mixtures Category 2
<b>Substances and mixtures which, in contact with water, emit flammable gases</b>	
4.3A	substances and mixtures which, in contact with water, emit flammable gases Category 1
4.3B	substances and mixtures which, in contact with water, emit flammable gases Category 2
4.3C	substances and mixtures which, in contact with water, emit flammable gases Category 3
<b>Oxidising substances that are liquids or solids</b>	
5.1.1A	oxidising liquids Category 1, or oxidising solids Category 1
5.1.1B	oxidising liquids Category 2, or oxidising solids Category 2
5.1.1C	oxidising liquids Category 3, or oxidising solids Category 3
<b>Oxidising gases</b>	
5.1.2A	oxidising gases Category 1
<b>Organic peroxides</b>	
5.2A	organic peroxide Type A
5.2B	organic peroxide Type B
5.2C	organic peroxide Type C
5.2D	organic peroxide Type D
5.2E	organic peroxide Type E
5.2F	organic peroxide Type F
5.2G	organic peroxide Type G
<b>Corrosive to metals</b>	
8.1A	corrosive to metals Category 1
<b>Health Hazards</b>	
<b>Column 1</b> Pre-2021 HSNO classification Acute toxicity	<b>Column 2</b> Equivalent classification under this notice

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6.1A (oral, dermal, inhalation)	acute oral toxicity Category 1 acute dermal toxicity Category 1 acute inhalation toxicity Category 1
6.1B (oral, dermal, inhalation)	acute oral toxicity Category 2 acute dermal toxicity Category 2 acute inhalation toxicity Category 2
6.1C (oral, dermal, inhalation)	acute oral toxicity Category 3 acute dermal toxicity Category 3 acute inhalation toxicity Category 3
6.1D (oral, dermal, inhalation)	acute oral toxicity Category 4 acute dermal toxicity Category 4 acute inhalation toxicity Category 4
6.1E (oral, dermal, inhalation)	<i>Note: acute toxicity Category 5 has not been adopted</i>
<b>Aspiration hazard</b>	
6.1E (aspiration hazard)	aspiration hazard Category 1 <i>Note: aspiration hazard Category 2 has not been adopted</i>
<b>Respiratory tract irritation</b>	
6.1E (respiratory tract irritant)	specific target organ toxicity - single exposure Category 3 respiratory tract irritation
<b>Skin corrosion/irritation</b>	
8.2A	skin corrosion Category 1A
8.2B	skin corrosion Category 1B
8.2C	skin corrosion Category 1C
6.3A	skin irritation Category 2
6.3B	<i>Note: skin irritation Category 3 has not been adopted</i>
<b>Serious eye damage/eye irritation</b>	
8.3A	serious eye damage Category 1
6.4A	eye irritation Category 2 <i>Note: The subcategories 2A and 2B have not been adopted.</i>
<b>Respiratory or skin sensitisation</b>	
6.5A	respiratory sensitisation Category 1
6.5B	skin sensitisation Category 1
<b>Germ cell mutagenicity</b>	
6.6A	germ cell mutagenicity Category 1
6.6B	germ cell mutagenicity Category 2
<b>Carcinogenicity</b>	
6.7A	carcinogenicity Category 1
6.7B	carcinogenicity Category 2
<b>Reproductive toxicity</b>	
6.8A	reproductive toxicity Category 1
6.8B	reproductive toxicity Category 2
6.8C (additional category for effects on or via lactation)	effects on or via lactation
<b>Specific target organ toxicity</b>	
6.9A (oral, dermal, inhalation)	specific target organ toxicity - single exposure Category 1 specific target organ toxicity - repeated exposure Category 1
6.9B (oral, dermal, inhalation)	specific target organ toxicity - single exposure Category 2 specific target organ toxicity - repeated exposure Category 2
6.9B (narcotic effects)	specific target organ toxicity - single exposure Category 3 narcotic effects

**Environmental Hazards**

<b>Column 1</b> <b>Pre-2021 HSNO classification</b>	<b>Column 2</b> <b>Equivalent classification under this notice</b>
<b>Hazardous to the aquatic environment</b>	
9.1A	hazardous to the aquatic environment acute Category 1 hazardous to the aquatic environment chronic Category 1
9.1B	hazardous to the aquatic environment chronic Category 2
9.1C	hazardous to the aquatic environment chronic Category 3
9.1D	hazardous to the aquatic environment chronic Category 4 <i>Note: hazardous to the aquatic environment acute Category 2 and acute Category 3 have not been adopted</i>
<b>Hazardous to the terrestrial environment</b>	
9.2A, 9.2B, 9.2C, 9.2D	hazardous to soil organisms
9.3A, 9.3B, 9.3C	hazardous to terrestrial vertebrates
9.4A, 9.4B, 9.4C	hazardous to terrestrial invertebrates
9.1D (designed for biocidal action)	designed for biocidal action

Signed at Wellington this 15th day of October 2020.

JULIE HARDAKER, Chairperson, Environmental Protection Authority.

