



Hazardous Substances (Emergency Management) Regulations 2001

Silvia Cartwright, Governor-General

Order in Council

At Wellington this 28th day of May 2001

Present:

Her Excellency the Governor-General in Council

Pursuant to section 76(1)(d) of the Hazardous Substances and New Organisms Act 1996, Her Excellency the Governor-General, acting on the advice and with the consent of the Executive Council (given on the recommendation of the Minister for the Environment made in compliance with section 141(1) of that Act), makes the following regulations.

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Regulations

- 1 Title**
These regulations are the Hazardous Substances (Emergency Management) Regulations 2001.
- 2 Commencement**
These regulations come into force on 2 July 2001.

Part 1 General

3 Interpretation

(1) In these regulations, unless the context otherwise requires,—
incompatible has the meaning given to that term by regulation 84, or regulation 103, or table 1 of Schedule 3, of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001 (as the case requires)

package has the meaning given to that term by regulation 3 of the Hazardous Substances (Packaging) Regulations 2001

place includes a vehicle; and **in a place** includes on a vehicle
vehicle has the meaning given to that term by regulation 3 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001.

(2) In these regulations,—

(a) **corrosive substance, ecotoxic substance, explosive substance, flammable substance, organic peroxide, oxidising substance, and toxic substance** have the meanings given to those terms by regulation 3 of the Hazardous Substances (Classification) Regulations 2001; and

(b) **aggregate water capacity, permanent gas, and person in charge** have the meanings given to those terms by regulation 3 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001; and

(c) a term defined in section 2(1) or section 135 of the Hazardous Substances and New Organisms Act 1996 has the meaning given to it by that provision.

4 Exclusion for substances used for motive power or control of vehicle, aircraft, or ship

(1) The requirements of these regulations do not apply to any substance that is required for the motive power or control of a vehicle, aircraft, or ship and is contained in the fuel system, electrical system, or control system of the vehicle, aircraft, or ship.

(2) This regulation overrides all other provisions of these regulations.

5 General description of emergency management system

- (1) There are 3 levels of emergency management requirements for hazardous substances.
- (2) Level 1 requirements apply to hazardous substances in quantities equal to or greater than minimum quantities stated in Schedule 1.
- (3) The higher levels relate to greater quantities (with the quantities depending on the hazard classifications of the substances concerned).
- (4) The levels are therefore cumulative, with the higher levels including all the requirements of the level or levels below them.

Part 2**Level 1 emergency management (information)***Duties***6 Information duties under Part 2 of suppliers**

A person must comply with this Part when selling or supplying to another person a quantity of a hazardous substance of a particular hazard classification equal to or greater than the quantity specified for hazardous substances of that classification in Schedule 1.

7 Information duties under Part 2 of persons in charge of places

- (1) This regulation applies to a place if a hazardous substance of a particular hazard classification is held there in a quantity equal to or greater than the quantity specified for hazardous substances of that classification in Schedule 1.
- (2) A person in charge of a place to which this regulation applies must ensure that this Part is complied with in respect of each substance concerned.

*Information***8 Content**

The following information must be provided with the substance concerned:

- (a) for a corrosive substance (other than a corrosive substance of class 8.1),—

- (i) a description of the usual symptoms of exposure to it; and
- (ii) a description of the first aid to be given to a person exposed to it; and
- (iii) a 24-hour emergency service telephone number:
- (b) for an explosive substance, a 24-hour emergency service telephone number:
- (c) for a flammable substance,—
 - (i) a description of the material and equipment needed to put out a fire involving it; and
 - (ii) if it is subject to temperature control under the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, a warning of the temperature at which it is likely to ignite:
- (d) for an oxidising substance or organic peroxide,—
 - (i) a description of the material and equipment needed to put out a fire involving it; and
 - (ii) a 24-hour emergency service telephone number; and
 - (iii) if it is subject to temperature control under the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, a warning of the temperature at which it is likely to decompose and possibly explode:
- (e) for a toxic substance of class 6.1, 6.3, 6.4, or 6.5,—
 - (i) a description of the usual symptoms of exposure to it; and
 - (ii) a description of the first aid to be given to a person exposed to it; and
 - (iii) a 24-hour emergency service telephone number:
- (f) for an ecotoxic substance,—
 - (i) a description of the parts of the environment likely to be immediately affected by it; and
 - (ii) a description of its typical effects on those parts of the environment; and
 - (iii) a statement of any immediate actions that may be taken to prevent the substance from entering, or affecting, those parts of the environment.

9 Availability

The information required by regulation 8 must be so provided that it is available to a person handling the substance concerned within 10 seconds.

10 Comprehensibility, clarity, and durability

The information required by regulation 8 must meet the standards of comprehensibility, clarity, and durability required by regulations 34 to 36 of the Hazardous Substances (Identification) Regulations 2001.

11 Alternative information for substances being transported

- (1) While a hazardous substance is being transported by land, it does not have to comply with regulations 8 to 10 if it is labelled or marked in compliance with Land Transport Rule 45001: Dangerous Goods 1999 (made under the Land Transport Act 1998).
- (2) While a hazardous substance is being transported by sea, it does not have to comply with regulations 8 to 10 if it is labelled or marked in compliance with Maritime Rule 24A Carriage of Cargoes-Dangerous Goods (made under Part III of the Maritime Transport Act 1994).
- (3) While a hazardous substance is being transported by air, it does not have to comply with regulations 8 to 10 if it is labelled or marked in compliance with Civil Aviation Rule 92: Carriage of Dangerous Goods (made under Part III of the Civil Aviation Act 1990).

Part 3**Level 2 emergency management (further information, and fire extinguishers)***Duties***12 Information duties under Part 3 of suppliers**

A person must comply with regulations 16 to 19 when selling or supplying to another person a quantity of a hazardous substance of a particular hazard classification equal to or greater than that specified for hazardous substances of that classification in Schedule 2 if—

- (a) the person is satisfied on reasonable grounds that the other person is likely to use the substance in a place of work; and
- (b) the person has never previously—
 - (i) sold or supplied a quantity of the substance in that state to the other person in circumstances requiring compliance with regulations 16 to 19; and
 - (ii) complied with those regulations in relation to selling or supplying it.

13 Certain suppliers to give further information if asked

A person required by regulation 6 to comply with Part 2 when selling or supplying a quantity of a hazardous substance to another person must also, if asked to do so by the other person, give the other person the information required by regulations 16 and 17.

14 Information duties under Part 3 of persons in charge of places of work

- (1) This regulation applies to a place of work—
 - (a) if there is held in it any quantity of a hazardous substance of a particular hazard classification in respect of which Schedule 2 specifies “any quantity”; or
 - (b) if there is held in it (whether in a single container or 2 or more containers) an aggregate quantity of hazardous substances of hazard classification 3.1D, 5.3G, 6.1E, 6.3A, 6.4A, 9.1D, or 9.2D equal to or greater than the quantity specified for hazardous substances of that classification in Schedule 2; or
 - (c) if there is held in it in a single container a quantity of a hazardous substance of a particular hazard classification (other than a hazardous substance of hazard classification 3.1D, 5.3G, 6.1E, 6.3A, 6.4A, 9.1D, or 9.2D) equal to or greater than the quantity specified for hazardous substances of that classification in Schedule 2; or
 - (d) if—
 - (i) there is held in it in 2 or more containers an aggregate quantity of hazardous substances of a particular hazard classification (other than hazardous substances of hazard classification 3.1D,

- 5.3G, 6.1E, 6.3A, 6.4A, 9.1D, or 9.2D) equal to or greater than 10 times the quantity specified for hazardous substances of that classification in Schedule 2; and
- (ii) none of the individual containers contains a quantity of a hazardous substance of that hazard classification equal to or greater than the quantity specified for hazardous substances of that classification in Schedule 2.
- (2) A person in charge of a place of work to which this regulation applies must either—
- (a) ensure that information provided with the hazardous substances of each classification concerned by their seller or supplier in compliance with regulations 16 and 17—
- (i) continues to be provided with the substances; and
- (ii) continues to comply with regulations 18 and 19;
- or
- (b) ensure that other information is provided with the hazardous substances of each classification concerned in compliance with regulations 16 to 19.
- (3) The person must also comply with Part 2.

15 Alternative information for substances being transported

- (1) While a hazardous substance is being transported by land, it does not have to comply with regulations 16 to 19 if it is accompanied by documents that comply with Land Transport Rule 45001: Dangerous Goods 1999 (made under the Land Transport Act 1998).
- (2) While a hazardous substance is being transported by sea, it does not have to comply with regulations 16 to 19 if it is accompanied by documents that comply with Maritime Rule 24A Carriage of Cargoes-Dangerous Goods (made under Part III of the Maritime Transport Act 1994).
- (3) While a hazardous substance is being transported by air, it does not have to comply with regulations 16 to 19 if it is accompanied by documents that comply with Civil Aviation Rule 92: Carriage of Dangerous Goods (made under Part III of the Civil Aviation Act 1990).

*Further information***16 General content**

- (1) A person required by regulation 12 or regulation 14 to comply with this regulation in relation to a quantity of hazardous substances of a particular hazard classification must provide the following information with the quantity:
 - (a) a description of the preparations that should be made for an emergency involving the substances;
 - (b) a description of any special training or equipment needed to deal with an emergency involving the substances;
 - (c) a description of the action to be taken to reduce or eliminate the dangers arising from an emergency involving the substances;
 - (d) a description of the action to be taken, including the use of any protective equipment or agents (such as neutralisers and absorbents), to re-establish the controls established when the substances were approved.
- (2) To the extent that any information required by subclause (1) is different for different hazardous substances of the same classification, it must be provided—
 - (a) separately; and
 - (b) so that it states clearly which substances it relates to.

17 Extra content for flammable and oxidising substances and organic peroxides

A person required by regulation 12 or regulation 14 to comply with regulation 16 in relation to a quantity of a flammable substance, an oxidising substance, or an organic peroxide must also provide with the quantity a description of the steps to be taken to control a fire involving the substance, including the types of extinguishant to be used.

18 Availability

Information required by regulation 16 or regulation 17 must be so provided that it is available to a person handling the substance concerned within 5 minutes.

19 Comprehensibility, clarity, and durability

Information required by regulation 16 or regulation 17 must meet the standards of comprehensibility, clarity, and durability required by regulations 34 to 36 of the Hazardous Substances (Identification) Regulations 2001.

20 Requirements additional to Level 1

The requirements of regulations 16 and 17 are additional to those of Part 2.

*Fire extinguishers***21 Fire extinguishers required**

- (1) There must be in every place to which regulation 14 applies because there is held in it, or reasonably likely to be held in it on occasion, an aggregate quantity of hazardous substances of a particular hazard classification in a particular state, the number of fire extinguishers specified in Schedule 3.
- (2) If substances of 2 or more hazard classifications are held in the place, or reasonably likely to be held in it on occasion,—
 - (a) the numbers of fire extinguishers are not cumulative; and
 - (b) it is enough to have the highest of the numbers of fire extinguishers specified for substances of the various classifications.
- (3) References in Schedule 3 to volumes of gaseous hazardous substances must be read as references to volumes of those substances as they would be at—
 - (a) a pressure of 103 kPa; and
 - (b) a temperature of 20°C.

22 Location of fire extinguishers

- (1) In the case of a motor vehicle transporting hazardous substances, the fire extinguishers required by regulation 21 must be in or on the vehicle.
- (2) In any other case, every fire extinguisher required by regulation 21 must be so located that the distance of travel between it and the substances concerned is no more than 30 metres.

23 Capability of fire extinguishers

Each fire extinguisher required by regulation 21 must be able, when used by one person, to put out a fully ignited pool, 50 mm deep and at least 6 m in area, of a flammable liquid with properties equivalent to those of n-heptane.

24 Information about fires still needed

Regulations 21 to 23 do not limit or affect any information requirement relating to fires in Part 2 or this Part.

Part 4**Level 3 emergency management (response plans,
secondary containment, and signage)***Duties***25 Duties of persons in charge of places under this Part**

- (1) This regulation applies to a place if—
- (a) there is held in it, or reasonably likely to be held in it on occasion, an aggregate quantity of hazardous substances of a particular hazard classification greater than the quantity specified in Schedule 4; and
 - (b) it is not an aircraft subject to the Civil Aviation Act 1990 or a ship subject to the Maritime Transport Act 1994.
- (2) Subject to regulations 36(3) and 42(2), a person in charge of a place to which this regulation applies must ensure that the requirements of this Part are complied with.
- (3) If the third column of Schedule 4 specifies a weight and a volume as alternative quantities for hazardous substances in gaseous form,—
- (a) subclause (1) has effect as soon as either quantity of the substances is held or reasonably likely to be held; and
 - (b) the references to a volume of gaseous hazardous substances must be read as references to volumes of those substances as they would be at—
 - (i) a pressure of 103 kPa; and
 - (ii) a temperature of 20°C.

26 Requirements additional to Levels 1 and 2

The requirements of this Part are additional to those of Parts 2 and 3.

*Emergency response plans***27 When emergency response plans required**

A place to which this Part is applied by regulation 25(1) must have in it a single emergency response plan relating to all the hazardous substances held in it or reasonably likely to be held in it on occasion.

28 Plans to warn of likely emergencies

An emergency response plan must describe all of the reasonably likely emergencies that may arise from the breach or failure of the controls on hazardous substances of the hazard classifications concerned.

29 Contents of plans

An emergency response plan must, for each reasonably likely emergency,—

- (a) describe the actions to be taken to—
 - (i) warn people at the place, and in surrounding areas that may be adversely affected by the emergency, that an emergency has occurred; and
 - (ii) advise those people about the actions they should take to protect themselves; and
 - (iii) help or treat any person injured in the emergency; and
 - (iv) manage the emergency so that its adverse effects are first restricted to the area initially affected, then as soon as practicable reduced in severity, then if reasonably possible eliminated; and
 - (v) if any of the substances concerned remain, re-establish the controls imposed on it when it was approved; and
- (b) identify every person with responsibility for undertaking any of the actions described in paragraph (a) (or any part of any of those actions) and give information on—
 - (i) how to contact the person; and
 - (ii) any skills the person is required to have; and

- (iii) any actions that person is expected to take; and
- (c) specify—
 - (i) how to obtain information about the hazardous properties of and means of controlling the substance or substances that may be involved; and
 - (ii) actions to be taken to contact any emergency service provider; and
 - (iii) the purpose and location of each item of equipment or material to be used to manage the emergency; and
 - (iv) how to decide which actions to take; and
 - (v) the sequence in which actions should be taken.

30 Extra information required in some cases

An emergency response plan—

- (a) must specify the design and installation of the fire extinguishers provided under regulation 21, and any extra firefighting equipment, materials, and systems provided, if any of the reasonably likely emergencies identified in the plan is a fire; and
- (b) must provide for the retention of any liquid or liquefied oxidising substance or organic peroxide, to prevent its contacting any incompatible substance.

31 Availability of equipment, materials, and people

All equipment and materials described in an emergency response plan, and all responsible people described in an emergency response plan who are on duty, must—

- (a) be present at the location concerned; or
- (b) be available to reach the location of the substance within the times specified in the plan; or
- (c) in the case of a trained person, be available to provide the advice or information specified in the plan within a time specified in the plan.

32 Availability of plans

- (1) An emergency response plan must be available to every person identified under regulation 29(b) as being responsible for executing the plan or a specific part of it, and to every emergency service provider identified in it.

- (2) The information in an emergency response plan must meet the standards of presentation required by Part 2 of the Hazardous Substances (Identification) Regulations 2001.

33 Testing plans

- (1) An emergency response plan must be tested at least every 12 months; and the test must demonstrate that every procedure or action in the plan is workable and effective.
- (2) If there is a change to the persons, procedures, or actions specified in an emergency response plan, the plan must be tested within 3 months of the change; and the test must demonstrate that—
- (a) the changed persons can perform their functions under the plan; and
 - (b) each changed procedure or action is workable and effective.
- (3) The carrying out and the results of every test must be documented; and the documentation must be retained at least 2 years.

34 Plan can be part of other management documentation

An emergency response plan can be part of any other management documentation for an emergency whether—

- (a) required by the Hazardous Substances and New Organisms Act 1996 or some other Act; or
- (b) undertaken by a person or organisation for some other reason.

Secondary containment

35 Terms used in regulations 36 to 41

In this regulation and regulations 36 to 41, unless the context otherwise requires,—

pooling substance means a hazardous substance that—

- (a) is in fluid form; or
- (b) is likely to liquify in a fire

secondary containment system, in relation to a place, means a system or systems—

- (a) in which pooling substances held in the place will be contained if they escape from the container or containers in which they are being held; and
- (b) from which they can, subject to unavoidable wastage, be recovered

total pooling potential, in relation to a place, means the aggregate quantity of all pooling substances held in the place.

36 Secondary containment systems for pooling substances

- (1) A place to which regulation 25 applies must have a secondary containment system if the quantity of any pooling substances of a particular hazard classification held in it is equal to or greater than the quantity specified in Schedule 4.
- (2) The system must comply with regulation 37, regulation 38, regulation 39, or regulation 40, depending on—
 - (a) the capacities of the container or containers in which the substances are held; and
 - (b) whether they are held in a place above or below ground.
- (3) Subclause (1) does not apply to a place that is a vehicle.

37 Surface containers of up to 60 litres

If the pooling substances held in a place above ground are in containers each of which has a capacity of 60 litres or less,—

- (a) if the place's total pooling potential is less than 5 000 litres, the secondary containment system must have a capacity of at least half that total pooling potential:
- (b) if the place's total pooling potential is 5 000 litres or more, the secondary containment system must have a capacity of the greater of—
 - (i) 2 500 litres; and
 - (ii) a quarter of that total pooling potential.

38 Surface containers of over 60 and up to 450 litres

If the pooling substances held in a place above ground are in containers 1 or more of which have a capacity of more than 60 litres but none of which has a capacity of more than 450 litres,—

- (a) if the place's total pooling potential is less than 5 000 litres, the secondary containment system must have a capacity of at least that total pooling potential:
- (b) if the place's total pooling potential is 5 000 litres or more, the secondary containment system must have a capacity of the greater of—
 - (i) 5 000 litres; and
 - (ii) half that total pooling potential.

39 Surface containers of over 450 litres

- (1) If the pooling substances held in a place above ground are in containers 1 or more of which have a capacity of 450 litres or more, the secondary containment system must have a capacity of at least 110% of the capacity of the largest container.
- (2) Subclause (1) applies to a container that is so connected to some other container or containers that leakage from it will cause the other container or containers to empty, as if its capacity is the sum of the capacities of all the connected containers.

40 Underground containers

If pooling substances are held in a place below ground, the secondary containment system must be so designed, constructed, and operated, that,—

- (a) if the substances all escape, they—
 - (i) are retained within the boundaries of the place; and
 - (ii) are prevented from escaping from the place through groundwater movement; and
- (b) no more than 5% of the place's total pooling potential is retained in the place's soil over the place's total operating life.

41 Particular controls on secondary containment systems

There must be instituted or capable of being instituted in or in respect of a secondary containment system required by these regulations, controls that—

- (a) if explosive substances must be contained, exclude any energy source capable of causing them to explode:

- (b) if flammable or oxidising substances, or organic peroxides, must be contained, exclude any energy source capable of igniting them or causing them to decompose thermally;
- (c) if toxic or biological corrosive substances must be contained, prevent people from being directly exposed to them;
- (d) prevent the substances retained from being contaminated by incompatible substances and materials.

Signage

42 Signage requirements

- (1) Every place where there is held a quantity of a hazardous substance that is equal to or greater than the quantity specified for hazardous substances of that hazard classification in Schedule 5 must have signage that—
 - (a) advises the action to be taken in an emergency; and
 - (b) meets the requirements of regulations 34 and 35 of the Hazardous Substances (Identification) Regulations 2001.
 - (2) Subsection (1) does not apply to—
 - (a) an aircraft that is subject to the Civil Aviation Act 1990; or
 - (b) an ship that is subject to the Maritime Transport Act 1994; or
 - (c) an vehicle that is subject to the Land Transport Act 1998.
-

rr 6, 7(1)

Schedule 1

Quantities requiring Level 1 information

Property	Hazard classification	Physical state	Quantities [equal to or above]
Explosiveness	Class 1—all hazard classifications except small fireworks subject to the Hazardous Substances (Fireworks) Regulations 2001 and safety ammunition, airbag initiators and seatbelt pretensioners of class 1.4G and 1.4S, emergency flares and signalling devices of class 1.3G, 1.4G and 1.4S, and rocket motors of class 1.4G and 1.4S.		any quantity
Flammability	2.1.1A	gas	0.2 kg
		permanent gas	0.2 m ³
	2.1.1B	gas	0.5 kg
		permanent gas	0.5 m ³
	2.1.2A	gas	1 L aggregate water capacity
	3.1A	liquid	0.5 L
	3.1B, 3.1C	liquid	1 L
	3.1D	liquid	5 L
	3.2A, 3.2B, 3.2C	liquid	0.2 L
	4.1.1A	liquid	0.5 L
		solid	0.5 kg
	4.1.1B	liquid	1.0 L
		solid	1.0 kg
	4.1.2A, 4.1.2B, 4.1.2C, 4.1.2D, 4.1.2E, 4.1.2F, 4.1.2G	liquid	0.2 L
		solid	0.2 kg
	4.1.3A, 4.1.3B, 4.1.3C	solid	0.2 kg
	4.2A	liquid	0.2 L
		solid	0.2 kg
	4.2B	liquid	0.5 L
		solid	0.5 kg
4.2C	solid	1.0 kg	
4.3A	liquid	0.2 L	
	solid	0.2 kg	
4.3B	liquid	0.5 L	
	solid	0.5 kg	
4.3C	liquid	1.0 L	
	solid	1.0 kg	

Property	Hazard classification	Physical state	Quantities [equal to or above]
Capacity to oxidise	5.1.1A	liquid and solid	0.2 kg
	5.1.1B	liquid and solid	0.5 kg
	5.1.1C	liquid and solid	1.0 kg
	5.1.2A	gas	1.0 kg

(All liquid volumes measured at 20°C)

rr 12, 14(1)

Schedule 2

Quantities requiring Level 2 information

1 Hazard classification	2 Physical state	3 Quantity
Class 1—all hazard classifications except small fireworks subject to the Hazardous Substances (Fireworks) Regulations 2001 and safety ammunition, airbag initiators and seatbelt pretensioners of class 1.4G and 1.4S, emergency flares and signalling devices of class 1.3G, 1.4G and 1.4S, and rocket motors of class 1.4G and 1.4S.	any	any quantity
2.1.1A	gas	0.2 kg
	permanent gas	0.2 m ³
2.1.1B	gas	0.5 kg
	permanent gas	0.5 m ³
2.1.2A	gas	1 L aggregate water capacity
3.1A	liquid	0.5 L
3.1B	liquid	1 L
3.1C	liquid	5 L
3.1D	liquid	50 L
3.2A, 3.2B, 3.2C	liquid	any quantity
4.2A	solid	any quantity
4.1.1A, 4.2B	solid	0.5 kg
4.1.1B, 4.2C	solid	3 kg
4.1.2A, 4.1.2B, 4.1.2C, 4.1.2D, 4.1.2E, 4.1.2F, 4.1.2G	solid	any quantity
4.1.3A, 4.1.3B, 4.1.3C	liquid or solid	any quantity
4.3A	liquid or solid	any quantity
4.3B	liquid or solid	0.5 kg
4.3C	liquid or solid	1 kg
5.1.1A	liquid or solid	any quantity
5.1.1B	liquid or solid	0.5 kg
5.1.1C	liquid or solid	1 kg
5.1.2A	gas	1 m ³ or 1 kg
5.2A		
if it needs temperature control under the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, 5.2B, 5.2C, 5.2D, 5.2E, 5.2F	liquid or solid	any quantity
if it does not need temperature control under the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, 5.2B, 5.2C	liquid	25 millilitres
	solid	0.1 kg
if it does not need temperature control under the Hazardous Substances (Classes 1 to 5 Controls) Regulations 2001, 5.2D, 5.2E and 5.2F	liquid	125 millilitres
	solid	0.5 kg
5.2G	solid	50 kg
	liquid	50 L

1 Hazard classification	2 Physical state	3 Quantity
6.1A, 6.1B	liquid or solid	any quantity
6.1C, 6.6A, 6.7A, 6.8A, 6.9A	liquid	0.1 L
	solid	0.5 kg
6.1D, 6.5A, 6.5B, 6.6B, 6.7B, 6.8B, 6.8C, 6.9B	liquid	1 L
	solid	3 kg
6.1E, 6.3A, 6.3B, 6.4A	liquid	50 L
	solid	50 kg
8.2A	liquid or solid	any quantity
8.2B	liquid	0.5 L
	solid	1 kg
8.1A, 8.2C, 8.3A	liquid	1 L
	solid	2 kg
9.1A, 9.1B, 9.1C, 9.2A, 9.2B, 9.2C, 9.3A, 9.3B, 9.3C, 9.4A, 9.4B, 9.4C	liquid	5 L
	solid	5 kg
9.1D, 9.2D	liquid	50 L
	solid	50 kg

(All liquid volumes measured at 20°C)

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Schedule 3

Quantities requiring fire extinguishers

1 Hazard classification	2 Physical state	3 Quantity	4 No
1.1B	solid	1 kg	1
1.1C, 1.1D, 1.1E	liquid or solid	25 kg	1
1.4B, 1.4C, 1.4D, 1.4E, 1.4F, 1.4G, 1.4S	solid	50 kg	1
2.1.1A	gas	50 kg or 30 m	1
2.1.1B	gas	200 kg or 120 m	2
2.1.2A	aerosol	3 000 L aggregate water capacity	1
3.1A	liquid	50 L	1
		200 L	2
3.1B	liquid	250 L	2
3.1C, 3.1D	liquid	500 L	2
3.2A, 3.2B, 3.2C	liquid	50 L	1
		200 L	2
4.1.1A	solid	250 kg	2
4.1.1B	solid	500 kg	2
4.1.2A, 4.1.2B, 4.1.2C, 4.1.2D, 4.1.2E, 4.1.2F, 4.1.2G	liquid or solid	50 L (liquids) or 50 kg (solids)	1
		200 L (liquids) or 200 kg (solids)	2
4.1.3A, 4.1.3B, 4.1.3C	liquid or solid	50 L (liquids) or 50 kg (solids)	1
		200 L (liquids) or 200 kg (solids)	2
4.2A	liquid or solid	50 L (liquids) or 50 kg (solids)	1
		200 L (liquids) or 200 kg (solids)	2
4.2B	liquid	250 L	2
	solid	250 kg	
4.2C	liquid	500 L	2
	solid	500 kg	
4.3A	liquid or solid	50 kg	1
		200 kg	2
4.3B	liquid	250 L	2
	solid	250 kg	
4.3C	liquid	500 L	2
	solid	500 kg	
5.1.1A	liquid	5 L	1
	solid	5 kg	
5.1.1B	liquid	200 L	1
	solid	200 kg	
5.1.1C	liquid	500 L	2
	solid	500 kg	

1 Hazard classification	2 Physical state	3 Quantity	4 No
5.1.2A	gas	10 kg or 10 m ³ 50 kg or 50 m ³	1 2
5.2A, 5.2B	liquid solid	1 L 1 kg	1 1
5.2C, 5.2D	liquid solid	10 L 10 kg	1 1
5.2E, 5.2F	liquid solid	50 L 50 kg	1 1

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Schedule 4

Threshold quantities for Level 3

Hazard classification	Physical state	Quantity
1.1A, 1.1B, 1.1C, 1.1D, 1.1E, 1.2B, 1.2C, 1.2D, 1.2E, 1.2F, 1.2G, 1.2H, 1.2I, 1.2J, 1.2K, 1.2L	liquid or solid	50 kg
1.3C, 1.3F, 1.3G, 1.3H, 1.3J, 1.3K, 1.3L	liquid or solid	100 kg
1.4B, 1.4C, 1.4D, 1.4E, 1.4F, 1.4G, 1.4S, 1.5D, 1.6N, except flares 1.4G, safety ammunition 1.4S, and fireworks under the Hazardous Substances (Fireworks) Regulations 2001	liquid or solid	200 kg
2.1.1A	gas	300 kg or 200 m ³
2.1.1B	gas	1 000 kg or 600 m ³
2.1.2A	aerosol	3 000 L aggregate water capacity
3.1A	liquid	100 L
3.1B	liquid	1 000 L
3.1C, 3.1D	liquid	10 000 L
3.2A, 3.2B, 3.2C	liquid	100 L
4.1.1A	solid	1 000 kg
4.1.1B	solid	10 000 kg
4.1.2A, 4.1.2B	solid	50 kg
	liquid	50 L
4.1.2C, 4.1.2D	solid	100 kg
	liquid	100 L
4.1.2E, 4.1.2F, 4.1.2G	solid	200 kg
	liquid	200 L
4.1.3A, 4.1.3B, 4.1.3C	solid	100 kg
4.2A	solid	100 kg
	liquid	100 L
4.2B	solid	1 000 kg
	liquid	1 000 L
4.2C	solid	10 000 kg
	liquid	10 000 L
4.3A	solid	100 kg
	liquid	100 L
4.3B	solid	1 000 kg
	liquid	1 000 L
4.3C	solid	10 000 kg
	liquid	10 000 L
5.1.1A	solid	50 kg
	liquid	50 L
5.1.1B	solid	500 kg
	liquid	500 L

Hazard classification	Physical state	Quantity
5.1.1C	solid	5 000 kg
	liquid	5 000 L
5.1.2A	gas	100 kg or 100 m ³
5.2A, 5.2B	solid	10 kg
	liquid	10 L
5.2C, 5.2D	liquid	25 L
	solid	25 kg
5.2E, 5.2F	liquid	100 L
	solid	100 kg
6.1A, 6.1B, 6.1C	solid	100 kg
	liquid	100 L
	gas	5 kg or 2.5 m ³
6.1D, 6.5A, 6.5B, 6.7A	solid	1 000 kg
	liquid	1 000 L
	gas	50 kg or 25 m ³
6.3A, 6.3B, 6.4A, 6.6A, 6.7B, 6.8A, 6.9A	solid	10 000 kg
	liquid	10 000 L
8.2A	solid	100 kg
	liquid	100 L
	gas	5 kg or 2.5 m ³
8.2B	solid	1 000 kg
	liquid	1 000 L
	gas	50 kg or 25 m ³
8.2C, 8.3A	solid	10 000 kg
	liquid	10 000 L
9.1A	solid	100 kg
	liquid	100 L
9.1B, 9.1C	solid	1 000 kg
	liquid	1 000 L
9.1D	solid	10 000 kg
	liquid	10 000 L

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Schedule 5

Quantities requiring signage

Kinds of substances	Classification and state	Quantity
Explosive substances	1.3C, 1.4G, 1.4S (any state)	50 kg
	All remaining explosive hazard classifications (any state)	any quantity
Flammable substances	2.1.1A (gas)	250 kg non-permanent 100 m ³ permanent
	2.1.1B (gas)	500 kg non-permanent 200 m ³ permanent
	2.1.2 (aerosol)	3 000 L aggregate water capacity
	3.1A, 3.2A, 4.1.3A, 4.2A, 4.3A (liquid or solid)	50 L liquids
		50 kg solids
	3.1B, 3.2B, 4.1.3B, 4.2B, 4.3B (liquid or solid)	250 L liquids
		250 kg solids
	3.1C, 3.2C, 4.1.3C, 4.2C, 4.3C (liquid or solid)	1 000 L liquids
		1 000 kg solids
	3.1D (liquid or solid)	10 000 L liquids 10 000 kg solids
	4.1.1A (solid)	250 kg
	4.1.1B (solid)	1 000 kg
	4.1.2A, 4.1.2B (solid)	50 kg
	4.1.2C, 4.1.2D (solid)	250 kg
4.1.2E, 4.1.2F, 4.1.2G (solid)	1 000 kg	
Oxidising substances (other than organic peroxides)	5.1.1A (liquid or solid)	50 L liquids
		50 kg solids
	5.1.1B (liquid or solid)	500 L liquids
		500 kg solids
	5.1.1C (liquid or solid)	1 000 L liquids
		1 000 kg solids
	5.1.2A (gas)	250 kg non-permanent 500 m ³ permanent
5.2A, 5.2B (solid)	1 kg	
5.2C, 5.2D, 5.2E, 5.2F (solid)	10 kg	
Toxic substances	6.1A (liquid or solid)	50 L liquids 50 kg solids
	6.1B (liquid or solid)	250 L liquids 250 kg solids
	6.1C (liquid or solid)	1 000 L liquids 1 000 kg solids
	6.1D (liquid or solid)	10 000 L liquids 10 000 kg solids
		10 000 kg solids

Kinds of substances	Classification and state	Quantity
Corrosive substances	6.1A, 6.1B, 6.1C (gas)	5 kg non-permanent 2.5 m ³ permanent
	8.1A (liquid or solid)	1 000 L liquids 1 000 kg solids
	8.2A (liquid or solid)	50 L liquids 50 kg solids
	8.2A, 8.2B, 8.2C, 8.3A (gas)	5 kg non-permanent 2.5 m ³ permanent
	8.2B (liquid or solid)	250 L liquids 250 kg solids
	8.2C, 8.3A (liquid or solid)	1 000 L liquids 1 000 kg solids
Ecotoxic substances	9.1A, 9.2A, 9.3A, 9.4A (liquid or solid)	100 L liquids 100 kg solids
	9.1B, 9.1C, 9.2B, 9.2C, 9.3B, 9.4B, 9.4C (liquid or solid)	1 000 L liquids 1 000 kg solids
	9.1D, 9.2D, 9.3C (liquid or solid)	10 000 L liquids 10 000 kg solids
		10 000 kg solids

Martin Bell,
Acting for Clerk of the Executive Council.

Explanatory note

This note is not part of the regulations, but is intended to indicate their general effect.

These regulations, which come into force on 2 July 2001, prescribe emergency management requirements for hazardous substances.

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These regulations are administered in the Ministry for the Environment.
