

# *The Hazardous Substances and Waste Dangerous Goods Regulations*

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[Chapter E-10.2 Reg 3](#) (effective April 1, 1989) as amended by Saskatchewan Regulations [25/92](#), [107/92](#), [28/94](#), [3/95](#) and [63/2000](#).

**NOTE:**

This consolidation is not official. Amendments have been incorporated for convenience of reference and the original statutes and regulations should be consulted for all purposes of interpretation and application of the law. In order to preserve the integrity of the original statutes and regulations, errors that may have appeared are reproduced in this consolidation.

## Table of Contents

1	Title	11	Decision to grant approval
2	Interpretation	12	Approval not assignable, exception
	INTERPRETATION	13	Duties of operator, owner
	HAZARDOUS SUBSTANCES	14	Prohibition re storage in above-ground tanks
3	Designation of hazardous substances	15	Prohibition re storage in underground tanks
	DESIGNATION AS HAZARDOUS WASTES	16	Prohibition re storage in certain containers or stockpiles
3.1	Designation of waste dangerous goods as hazardous wastes	17	Decommissioning
	CHARACTERIZATION OF SUBSTANCES		TRANSFERAL OF WASTE DANGEROUS GOODS
4	Characteristics of certain hazardous substances	18	Transferal of waste dangerous goods
	EXEMPTION FROM REQUIREMENTS		
5	General Exemptions		<b>Appendix A</b>
6	Underground storage facilities		INDUSTRIAL HAZARDOUS SUBSTANCES
7	Above-ground storage facilities		<b>Appendix B</b>
8	Storage in small containers		ACUTE HAZARDOUS SUBSTANCES
	APPROVAL TO STORE		<b>Appendix C</b>
9	Approval to store		ENVIRONMENTAL PERSISTENT OR CHRONIC HAZARDOUS SUBSTANCES
	APPROVAL TO CONSTRUCT		<b>Appendix D</b>
10	Approval to construct		WASTE DANGEROUS GOODS

## CHAPTER E-10.2 REG 3

### *The Environmental Management and Protection Act*

#### Title

1 These regulations may be cited as *The Hazardous Substances and Waste Dangerous Goods Regulations*.

1 May 92 SR 25/92 s3.

## INTERPRETATION

#### Interpretation

2(1) In these regulations:

- (a) **“abandoned”** when used in reference to a storage facility, means unused or out-of-service for the purpose of storing a hazardous substance or waste dangerous good for a period of 24 consecutive months or more;
- (a.1) **“above-ground storage tank”** means a storage tank of which more than ninety percent of its capacity is above surface grade;
- (a.2) **“Act”** means *The Environmental Management and Protection Act*;
- (b) **“agricultural chemical”** means any substance intended, sold or represented for use as a fertilizer, pesticide or soil supplement;
- (c) **“alteration”**, with respect to a storage facility, means any addition, enlargement or other change or replacement of the storage facility or any change in the configuration of the piping of the storage facility, but does not include:
  - (i) adjustments, repairs or maintenance made in the course of normal operation of the storage facility;
  - (ii) minor improvements to an existing storage facility; or
  - (iii) temporary changes made to the storage facility in an emergency;
- (d) **“approval”** means an approval in writing from the minister;
- (e) **“approved”** means approved by the minister in writing;
- (f) **“ASTM”** means the American Society for Testing and Materials;
- (f.1) **“certification program”** means a training course that covers the installation, testing or decommissioning of storage tanks for petroleum products that is offered by the department or is an equivalent training course approved by the minister;

- (g) “**container**” means a receptacle of 205 litres water capacity or less that is designed to be used to store or contain a hazardous substance, a mixture of hazardous substances, a waste dangerous good, a mixture of waste dangerous goods or a combination of those items;
- (h) “**corrosive substance**” means a substance with the characteristics described in clause 4(1)(a);
- (i) “**decommissioning**” means:
- (i) the process of removing a storage facility from operation and decontaminating or disposing of it or placing it in a condition of standby with appropriate controls and safeguards acceptable to the minister; or
  - (ii) decontaminating the area used for the operation of a storage facility;
- (j) “**director**” means the Director of the Commercial Branch, Saskatchewan Environment and Resource Management;
- (j.1) “**empty container**” means a container from which:
- (i) all hazardous substances or waste dangerous goods have been removed from the container so that the container contains less than 0.1 % of the original amount of hazardous substance or waste dangerous good as residue in the container; and
  - (ii) where applicable, all flammable vapours have been reduced to less than twenty percent (20%) of the lower explosive limit for the material by purging or by the introduction of an inert material;
- (j.2) “**existing**” means a storage facility that was constructed, installed or relocated prior to April 1, 1989, whether it was operational or not;
- (k) “**environmental persistent or chronic hazardous substance**” means a substance with the characteristics described in clause 4(1)(b);
- (k.1) “**flow-through process tank**” means any storage tank which forms an integral part of a manufacturing, recycling or disposal process and through which there is a steady or uninterrupted flow of any hazardous substances or waste dangerous goods during operation of the process;
- (l) “**hazardous substance**” means a substance designated in section 3;
- (m) “**household chemical**” means any substance that has been collected, transported, stored or used in domestic establishments including single and multiple residences, hotels and motels;
- (n) “**ignitable substance**” means a substance with the characteristics described in clause 4(1)(c);
- (o) “**LC<sub>50</sub>**” means LC<sub>50</sub> as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
- (p) “**LD<sub>50</sub>**” means LD<sub>50</sub> as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);

- (p.1) **“level 1 leak detection”** means a method of detection that is capable of detecting a leak of 0.38 litres per hour with a probability of detection of 0.95 and a probability of false alarm of 0.05;
- (q) **“mixture”** means any combination of two or more substances if the combination is not the result of a chemical reaction;
- (r) **“NACE”** means the National Association of Corrosion Engineers;
- (s) **“operator”** means a person who is responsible for the day-to-day maintenance and operation of a storage facility;
- (s.1) **“out-of-service”**, when used in reference to a storage facility, means the lack of use, other than for seasonal, standby or surcharge storage, of the facility for a period not exceeding 24 consecutive months;
- (s.2) **“overflow protection system”** means a mechanical or electrical device that is installed in or on a storage tank to prevent the storage tank from being overfilled;
- (t) **“owner”** means a person who has the possessory right to and care, control or management of and over a storage facility;
- (u) **“oxidizing substance”** means a substance with the characteristics described in clause 4(1)(d);
- (v) **“petroleum product”** means a mixture of hydrocarbons, with or without additives, that is used, or is capable of being used, as a combustible fuel and, without limiting the generality of the foregoing, includes gasoline, diesel fuel, aviation fuel, kerosene, naphtha, lubricant, fuel oil, heating oil and engine oil, but does not include propane gas, paint or solvent;
- (v.1) **“qualified person”** means a person who has successfully completed a certification program and possesses two years of directly related experience in the installation, testing or decommissioning of underground storage tanks or above-ground storage tanks;
- (w) **“reactive substance”** means a substance with the characteristics described in clause 4(1)(e);
- (w.1) **“release detection system”** means any device or equipment that is capable of monitoring or determining the presence or evidence of hazardous substances or waste dangerous goods in subsurface soil;
- (w.2) **“stockpile”** means bulk storage and handling of hazardous substances or waste dangerous goods stored above surface grade or below surface grade and includes solids, liquids and mixtures of solids and liquids not contained in storage tanks or containers;
- (x) **“storage facility”** means any facility that is used for storing and handling:
- (i) hazardous substances; or
  - (ii) waste dangerous goods;
- and includes any warehouse, yard, storage tank, container, stockpile, pipe or equipment that is used for those purposes and is wholly contained within the contiguous boundaries of a property;

- (y) “**storage tank**” means a receptacle of greater than 205 litres water capacity that is used for the storage of a hazardous substance, a mixture of hazardous substances, a waste dangerous good, or a mixture of waste dangerous goods or a mixture of any two or more of them and includes a fixed or moveable receptacle but does not include a receptacle incorporated into moveable vehicle or trailer;
- (z) **Repealed.** 1 May 92 SR 25/92 s4.
- (aa) “**toxic substance**” means a substance with the characteristics described in clause 4(1)(f);
- (bb) “**trade secret**” includes any formula, plan, pattern, process, data, information or compilation of information that is not patented, that is secret or that is known only to the possessor or to a person with whom the possessor has a confidentiality agreement and that gives the possessor a competitive advantage over others who do not possess it, but does not include relevant information required to protect the environment and workers;
- (bb.1) “**transfer spill preventer**” means a collection device located on the fill pipe or other filling device of a storage tank that is designed to collect any over-delivery during the delivery of hazardous substances or waste dangerous goods to the storage tank;
- (cc) “**underground storage tanks**” means a storage tank that has at least 10% of its volume below the surface of the ground and includes pipes below the surface of the ground that are connected to a storage tank that is not below the surface of the ground;
- (dd) “**waste dangerous good**” means a substance with the characteristics described in subsection 4(4).
- (2) A reference to an Act of the Parliament of Canada is a reference to that Act as amended from time to time.

25 Nov 88 cE-10.2 Reg 3 s2; 1 May 92 SR 25/92  
s4; 27 Jan 95 SR 3/95 s3.

## HAZARDOUS SUBSTANCES

### Designation of hazardous substances

- 3** The following substances are designated as hazardous substances:
- (a) industrial hazardous substances listed in Appendix A;
  - (b) industrial hazardous substances described in subsection 4(2);
  - (c) acute hazardous substances listed in Appendix B;
  - (d) acute hazardous substances described in subsection 4(3);
  - (e) environmental persistent or chronic hazardous substances listed in Appendix C;
  - (f) environmental persistent or chronic hazardous substances described in clause 4(1)(b).

25 Nov 88 cE-10.2 Reg 3 s3.

## DESIGNATION AS HAZARDOUS WASTES

**Designation of waste dangerous goods as hazardous wastes****3.1** Waste dangerous goods are designated as hazardous wastes.

1 May 92 SR 25/92 s5.

## CHARACTERIZATION OF SUBSTANCES

**Characteristics of certain hazardous substances****4(1)** For the purposes of these regulations:

- (a) a corrosive substance is a substance that:
  - (i) has been known to cause visible necrosis of human skin tissue;
  - (ii) causes visible necrosis of the skin tissue of an albino rabbit at the contact site within a period of four hours or less when administered by continuous contact with the intact bare skin of the rabbit;
  - (iii) is aqueous and has a pH factor less than or equal to 2.0 or greater than or equal to 12.5 as determined by a pH meter;
  - (iv) corrodes SAE 1020 steel or 7075-T6 non-clad aluminum surfaces at a rate greater than 6.25 millimetres per year at a test temperature of 55° Celsius using test NACE TM-01-69 (Revised 1976) or an equivalent test approved by the director; or
  - (v) is a corrosive gas, Class 2, Division 4, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
- (b) an environmental persistent or chronic hazardous substance is a substance that:
  - (i) has been demonstrated to pose a hazard to human health or the environment because of its chronic toxicity, bio-accumulative properties or persistence in the environment;
  - (ii) has been recognized by the International Agency for Research on Cancer, the National Cancer Institute or the United States Environmental Protection Agency as a human or animal positive or suspected carcinogen;
  - (iii) is a Miscellaneous Product or Substance, Class 9, Division 1, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada); or
  - (iv) is a Miscellaneous Product or Substance, Class 9, Division 2, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
- (c) an ignitable substance is a substance that is:
  - (i) a liquid, other than an aqueous solution, containing less than 24% alcohol by volume and has a flash point less than 61° Celsius, as determined by the Tag Closed Cup Tester (ASTM D-56-82), the Setaflash Closed Cup Tester (ASTM D-3828-81 or ASTM D-3278-82), the Pensky-Martens Closed Cup Tester (ASTM D-93-80), or as determined by an equivalent test method approved by the minister;

- (ii) a solid and is capable, under normal conditions of storage temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a danger; or
  - (iii) an ignitable compressed gas, Class 2, Division 1, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
- (d) an oxidizing substance is a substance that:
- (i) causes or contributes to the combustion of another material by yielding oxygen or another oxidizing agent whether or not the oxidizing material is itself combustible;
  - (ii) contains the bivalent oxygen 0-0 structure, being an organic peroxide; or
  - (iii) is an oxidizing substance, Class 5, Divisions 1 and 2, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
- (e) a reactive substance is a substance that:
- (i) is normally unstable and readily undergoes violent polymerization, decomposition or condensation;
  - (ii) reacts violently with water;
  - (iii) forms potentially explosive mixtures with water;
  - (iv) when mixed with water, generates toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment;
  - (v) is a cyanide or sulphide bearing substance that when exposed to pH conditions between 2.0 and 12.5, inclusive, is capable of generating toxic gases, vapours or fumes in a quantity sufficient to present danger to human health or the environment;
  - (vi) is capable of becoming self-reactive under conditions of shock or increase in pressure or temperature;
  - (vii) is a flammable solid, Class 4, Division 1 as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);
  - (viii) is a substance liable to spontaneous combustion, Class 4, Division 2 as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada); or
  - (ix) is a substance that on contact with water emits flammable gases, Class 4, Division 3 as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada);

- (f) a toxic substance is a substance that:
- (i) in low dose has been found to be fatal to humans;
  - (ii) in the absence of data on human toxicity, has been shown in studies to have:
    - (A) an LD<sub>50</sub> for solids with oral toxicity not greater than 200 mg/kg;
    - (B) an LD<sub>50</sub> for liquids with oral toxicity not greater than 500 mg/kg;
    - (C) an LD<sub>50</sub> for substances with dermal toxicity not greater than 1000 mg/kg;
    - (D) and LC<sub>50</sub> for dusts or mists with inhalation toxicity not greater than 10000 mg/m<sup>3</sup> at normal atmospheric pressure; or
    - (E) a saturated vapour concentration greater than 0.2 times the LC<sub>50</sub> expressed in mL/m<sup>3</sup> at normal atmospheric pressure and an inhalation toxicity not greater than 5000 mL/m<sup>3</sup> at normal atmospheric pressure;
  - (iii) for the purposes of subclause (ii), where the LD<sub>50</sub> value or LC<sub>50</sub> value of a mixture is unknown, the LD<sub>50</sub> value or LC<sub>50</sub> value of a mixture may be determined by the formula prescribed in the *Transportation of Dangerous Goods Act* (Canada); or
  - (iv) is a poisonous compressed gas, Class 2, Division 3, as defined in the regulations made pursuant to the *Transportation of Dangerous Goods Act* (Canada).
- (2) A corrosive substance, an ignitable substance or an oxidizing substance is an industrial hazardous substance.
- (3) A reactive substance or a toxic substance is an acute hazardous substance.
- (4) A waste dangerous good is any substance that:
- (a) either:
    - (i) is no longer used for its original purpose; or
    - (ii) is intended for reuse, recovery, recycling, treatment or disposal, including storage prior to reuse, recovery, recycling, treatment or disposal; and
  - (b) either is:
    - (i) a substance listed in Appendix D;
    - (ii) a substance listed in Schedule II, List II, of *The Dangerous Goods Transportation Regulations*;

- (ii) a substance that meets any of the criteria set out in Part III of *The Dangerous Goods Transportation Regulations*; or
- (iv) a substance that:
  - (A) is included in Division 2 of Class 9 as defined in *The Dangerous Goods Transportation Regulations*;
  - (B) is in a quantity greater than 0.01% by mass; and
  - (C) is not regulated by the *Food and Drugs Act* (Canada) or the *Feeds Act* (Canada).
- (5) No person shall:
  - (a) mix or dilute; or
  - (b) allow mixing or dilution;

of a waste dangerous good with water or other liquid or solid, where the mixing or dilution would result in the waste dangerous good being no longer subject to these regulations.

25 Nov 88 cE-10.2 Reg 3 s4; 1 May 92 SR 25/92  
s6.

## EXEMPTION FROM REQUIREMENTS

### General Exemptions

- 5(1) These regulations do not apply to any substance that is not described in section 3 or 3.1 nor to any of the following:
- (a) household and agricultural chemicals stored for consumptive use on the premises of any single residence, multiple residence, hotel or motel;
  - (b) substances in quantities that are permitted in food or drugs pursuant to the *Food and Drugs Act* (Canada);
  - (c) radioactive materials regulated pursuant to the *Atomic Energy Control Act* (Canada);
  - (d) consumer products subject to the *Consumer Chemicals and Containers Regulations* (Canada), SOR/88-556, made pursuant to the *Hazardous Products Act* (Canada);
  - (e) tobacco and tobacco products;
  - (f) wood and wood products;
  - (g) empty containers;
  - (h) explosives as defined in the *Explosives Act* (Canada);
  - (i) hazardous wastes regulated pursuant to *The PCB Waste Storage Regulations*;
  - (j) substances in sanitary sewage lagoons.

(2) Any construction, installation or operation of, or alteration or extension to any industrial effluent works that is operated primarily for the storage of waste dangerous goods is exempt from clause 17(c) of the Act.

27 Jan 95 SR 3/95 s4.

**Underground storage facilities**

**6** These regulations do not apply to the storage of any hazardous substances or waste dangerous goods in the following types of underground storage facilities:

- (a) pipe lines and pipe storage facilities that store or transport crude oil, natural gas or production water and that are subject to *The Pipe Lines Act*;
- (b) interprovincial pipe lines that store or transport crude oil, natural gas or production water and that are subject to the *National Energy Board Act* (Canada);
- (c) natural gas distribution facilities within urban centres and low pressure rural distribution lines regulated pursuant to *The Power Corporation Act*;
- (d) storage facilities that store or transport crude oil, natural gas or production water and that are subject to *The Oil and Gas Conservation Act*;
- (e) flow-through process tanks.

27 Jan 95 SR 3/95 s5.

**Above-ground storage facilities**

**7(1)** These regulations do not apply to the storage of hazardous substances or waste dangerous goods in the following types of above-ground storage facilities:

- (a) **Repealed.** 1 May 92 SR 25/92 s9.
- (b) pipe lines and pipe storage facilities that store or transport crude oil, natural gas or production water and that are subject to *The Pipe Lines Act*;
- (c) storage facilities that store or transport crude oil, natural gas or production water and that are subject to *The Oil and Gas Conservation Act*;
- (d) flow-through process tanks; and
- (e) above-ground farm or residential storage tanks which are not used for storage for any commercial purpose;
- (f) above-ground storage tanks located within underground mines.

(2) These regulations do not apply to the design and installation of any pressure vessel that is:

- (a) regulated under *The Boiler and Pressure Vessel Act*; and
- (b) used for the storage of hazardous substances or waste dangerous goods.

(3) These regulations do not apply to the storage of any industrial hazardous substances within:

- (a) above-ground storage tanks that have a nominal capacity of less than 4000 litres; or
- (b) storage facilities employing above-ground storage tanks with an aggregate storage capacity of less than 4000 litres.

25 Nov 88 cE-10.2 Reg 3 s7; 1 May 92 SR 25/92 s9; 27 Jan 95 SR 3/95 s6.

**Storage in small containers**

8(1) Subject to subsection (2), these regulations do not apply to the storage of any hazardous substance or waste dangerous good in drums, bags, other containers or stockpile where the substance:

- (a) is stored or used in a research, industrial or experimental laboratory;
- (b) is an industrial hazardous substance stored in a storage facility and the weight of the substance combined with the weight of any other industrial hazardous substance stored in the facility does not exceed:
  - (i) 1000 kilograms in the case of an indoor facility; or
  - (ii) 2000 kilograms in the case of an outdoor facility;
- (c) is an acute hazardous substance stored in a storage facility and the weight of the substance combined with the weight of any other hazardous substance stored at the facility does not exceed 100 kilograms at any time;
- (d) is an environmental persistent or chronic hazardous substance stored in a storage facility and the weight of the substance combined with the weight of any other hazardous substance stored at the facility does not exceed 100 kilograms at any time; or
- (e) is a waste dangerous good stored in a storage facility other than used oil or waste antifreeze solutions and the weight of the waste dangerous good combined with the weight of any other waste dangerous good other than used oil or waste antifreeze solutions does not exceed 100 kilograms at any time.

(2) Where an acute hazardous substance, environmental persistent substance or chronic hazardous substance is also an industrial hazardous substance, the exemption provided by clause (1)(b) does not apply in respect of the storage of the substance.

(3) These regulations do not apply to the storage of new engine oil, lubricants and grease in containers.

(4) These regulations do not apply to the storage of used oil or waste antifreeze solutions in containers at a storage facility where the aggregate storage capacity for all used oil and waste antifreeze solution containers at that storage facility does not exceed 500 kilograms.

25 Nov 88 cE-10.2 Reg 3 s8; 1 May 92 SR 25/92 s10; 27 Jan 95 SR 3/95 s7.

## APPROVAL TO STORE

**Approval to store**

9(1) Subject to subsection (2), no person shall store hazardous substances or waste dangerous goods unless he or she has obtained the prior approval of the minister under this section to do so.

(2) In case of an existing storage facility, the owner of the storage facility:

(a) shall register the storage facility with the director on a form provided by the minister:

(i) in the case of a storage facility owned by a farmer, on or before December 31, 1992;

(ii) in any other case, within six months from the day on which these regulations come into force;

(b) shall, on registration pursuant to clause (a), comply with section 13 with respect to the operation and maintenance of the storage facility;

(c) may continue the operation of the storage facility without the approval of the minister until the sooner of an alteration to the storage facility or:

(i) in the case of an above-ground storage tank for petroleum products, December 31, 1997;

(ii) in the case of an underground storage tank for the storage of hazardous substances:

(A) if determined by the minister to be located in a site of high environmental sensitivity, April 1, 1994;

(B) subject to subsection (9), if determined by the minister to be located in a site of moderate environmental sensitivity, the sooner of:

(I) the detection of a leak in accordance with subsection 13(1.1) or (1.2); or

(II) the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured; or

(C) subject to subsection (10), if determined by the minister to be located in a site of low environmental sensitivity, when leaks are detected in accordance with subsection 13(1.1) or (1.2);

(iii) in the case of any other storage facility for the storage of hazardous substances other than those mentioned in subclauses (i) and (ii), April 1, 1995; or

(iv) in the case of a storage facility used for the storage of waste dangerous goods, April 1, 1995; and

(3) The owner or operator of a proposed storage facility for the storage of hazardous substances or waste dangerous goods shall submit an application, on a form supplied by the minister, to the minister for approval to store the hazardous substances or waste dangerous goods.

- (4) A person who has obtained the approval of the minister to store any hazardous substance or waste dangerous good shall post the approval in a conspicuous place in the storage facility where the hazardous substance or waste dangerous good is stored.
- (5) No person shall transfer or cause to be transferred any hazardous substance or waste dangerous good to a storage facility unless:
- (a) the storage facility has been approved by the minister pursuant to this section; or
  - (b) where the storage facility has not been approved, the storage facility has been registered with the director pursuant to this section for the storage of that substance and the storage facility is not required to be approved by the minister.
- (5.1) In the case of an underground storage tank mentioned in paragraph 9(2)(c)(ii)(C), clause (5)(b) does not apply unless the owner or operator of that underground storage tank is in compliance with subsection 13(1.1) or 13(1.2).
- (6) Where the owner or operator of a storage facility mentioned in subsection (2) proposes to make an alteration to the storage facility, he or she shall notify the minister of his or her intention to do so prior to commencing the alteration.
- (7) Where there is an alteration of a storage facility mentioned in subsection (2), sections 14, 15 and 16 apply on and from the time of the completion of the alteration of the facility.
- (8) Where there is no alteration to a storage facility mentioned in subclause (2)(c)(i) prior to December 31, 1997, section 14 applies on and from December 31, 1997.
- (8.1) Where there is no alteration to a storage facility mentioned in paragraph (2)(c)(ii)(A) prior to April 1, 1994, section 15 applies on and from April 1, 1994.
- (8.2) Where there is no alteration to a storage facility mentioned in paragraph (2)(c)(ii)(B) prior to the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured and the requirements of subsection (9) have been met, section 15 applies on and from the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured.
- (8.3) Where there is no alteration to a storage facility mentioned in paragraph (2)(c)(ii)(C) and the requirements of subsection (10) have been met, section 15 applies on and from the detection of a leak in accordance with subsection 13(1.1) or (1.2).
- (8.4) Where there is no alteration to a storage facility mentioned in subclause (2)(c)(iii) or (2)(c)(iv) prior to April 1, 1995, sections 14, 15 and 16 apply on and from April 1, 1995.

(9) No person shall store a hazardous substance in an underground storage tank at locations determined by the minister to be located in a site of moderate environmental sensitivity:

(a) in the case of an underground storage tank equipped with a metered product dispenser, unless:

(i) the underground storage tank is equipped in conformance with paragraphs 15(1)(b)(v)(C), (D) and either (A) or (B) by no later than December 31, 1997;

(ii) in the case of a steel underground storage tank, the underground storage tank is equipped in conformance with paragraph 15(1)(b)(v)(E) and clause 15(1)(c) by no later than December 31, 1997; and

(iii) the tank bed is equipped with at least one more release detection monitoring well than the number of tanks by the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured; or

(b) in the case of an underground storage tank not equipped with a metered product dispenser or an underground storage tank that is owned by a farmer and used solely for the purposes of storing petroleum products to be used by that farmer for his or her own farming purposes, unless:

(i) in the case of a steel underground storage tank, the underground storage tank is equipped in conformance with paragraph 15(1)(b)(v)(E) and clause 15(1)(c) by the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured; and

(ii) the tank bed is equipped with at least one more release detection monitoring well than the number of tanks by the later of December 31, 1997 or 17 years from the known date that the underground storage tank was manufactured.

(10) No person shall store a hazardous substance in an existing operational underground storage tank at a location determined by the minister to be a site of low environmental sensitivity:

(a) subject to clause (c), in the case of an underground storage tank equipped with a metered product dispenser, unless the owner or operator is conforming with the requirements of subsection 13(1.1) by no later than December 31, 1995;

(b) subject to clause (c), in the case of an underground storage tank not equipped with a metered product dispenser, unless the tank bed is equipped with at least one more release detection monitoring well than the number of tanks by December 31, 1995; or

- (c) in the case of an underground storage tank that is owned by a farmer and used solely for the purposes of storing petroleum products to be used by that farmer for his or her own farming purposes, unless the tank bed is equipped with at least one more release detection monitoring well than the number of tanks by December 31, 1997.
- (11) Sections 10 and 17 apply to every storage facility, including every storage facility mentioned in subsection (2).

1 May 92 SR 25/92 s11; 23 Oct 92 SR 107/92 s2;  
8 Apr 94 SR 28/94 s2; 27 Jan 95 SR 3/95 s8; 11  
Aug 2000 SR 63/2000 s2.

### APPROVAL TO CONSTRUCT

#### Approval to construct

**10(1)** No person shall:

- (a) construct, install, alter or expand; or
- (b) cause the construction, installation, alteration or expansion of;

a storage facility for the storage of hazardous substances or waste dangerous goods without the prior approval of the minister under this section to do so.

(2) The owner or operator of a proposed facility for the storage of hazardous substances or waste dangerous goods shall submit an application to the minister and provide as part of the application:

- (a) a general description of the proposed storage facility for each hazardous substance or waste dangerous good to be stored at the storage facility, including its location, site plan, storage system design and operation and maintenance procedures;
- (b) a list of each substance and waste dangerous good, and the estimated quantity of each, to be stored at the storage facility;
- (c) a description of:
  - (i) the release detection system; and
  - (ii) the containment system; and
  - (iii) where applicable, the regular inspection and maintenance procedures for those systems;
- (d) a copy of the preliminary facility emergency response contingency plan;
- (e) in the case of a storage tank and the associated piping and equipment for the storage of petroleum products, the name of the qualified person performing the construction, installation, alteration or expansion of the storage tank system; and
- (f) any other information that the minister may require.

(3) No person shall construct, install, alter or expand, or cause the construction, installation, alteration or expansion of, an above-ground storage tank for the storage of petroleum products, other than by means of the services of a qualified person or under the supervision of a person designated by the minister unless:

(a) each tank is filled by a direct top-fill using a functional automatic shut-off nozzle; and

(b) petroleum products are delivered from each tank by means of a gravity flow hose.

(4) No person shall construct, install, alter or expand, or cause the construction, installation, alteration or expansion of, an above-ground storage tank for the storage of waste dangerous goods other than under the supervision of a person designated by the minister.

(5) No person shall construct, install, alter or expand, or cause the construction, installation, alteration or expansion of, an underground storage tank for the storage of petroleum products other than by means of the services of a qualified person or under the supervision of a person designated by the minister.

(6) No person shall construct, install, alter or expand, or cause the construction, installation, alteration or expansion of, an underground storage tank for the storage of waste dangerous goods other than under the supervision of a person designated by the minister.

1 May 92 SR 25/92 s11; 27 Jan 95 SR 3/95 s9.

**Decision to grant approval**

11(1) Where a person makes an application pursuant to sections 9 or 10 or submits a proposal pursuant to section 17 and supplies all of the information required by the minister or by these regulations, the minister shall:

(a) either:

(i) issue the approval; or

(ii) refuse to issue the approval; and

(b) notify the person of the decision.

(2) The minister may:

(a) impose any terms and conditions on the approval that the minister considers appropriate;

(b) amend, vary, revoke or replace the terms or conditions mentioned in clause (a); and

(c) suspend or cancel an approval.

(3) No person to whom an approval is issued pursuant to these regulations shall fail to comply with any terms and conditions imposed in the approval.

1 May 92 SR 25/92 s11.

**Approval not assignable, exception**

12(1) Subject to subsection (2), the rights conferred on a person by an approval issued pursuant to Section 11 are not transferable to any other person.

(2) The rights conferred on a person by an approval are transferable to any other person who is assigned or assumes the construction or operation of the storage facility with respect to which the approval was given.

(3) An assignee or person who assumes the construction or operation of a storage facility shall, within 30 days of the assumption of the construction or operation or assignment, notify the director in writing of the assumption or assignment.

25 Nov 88 cE-10.2 Reg 3 s12; 1 May 92 SR 25/92 s12.

**Duties of operator, owner**

13(1) The operator or owner of a storage facility shall:

- (a) maintain all documents, including:
  - (i) a Material Safety Data Sheet as defined in the regulations made pursuant to the *Hazardous Products Act* (Canada), containing all hazard information concerning all hazardous substances stored at the facility and, subject to trade secret provisions under the *Hazardous Products Act* (Canada) and other applicable legislation, the chemical ingredients of all hazardous substances stored at the facility; and
  - (ii) records of laboratory analyses or a Material Safety Data Sheet as defined in the regulations made pursuant to the *Hazardous Products Act* (Canada), containing:
    - (A) all hazard information concerning any component of the waste dangerous goods that indicate the classification of the waste dangerous goods according to the criteria prescribed in Part III or Schedule II List II of *The Dangerous Goods Transportation Regulations*; and
    - (B) all other information regarding the composition of the waste dangerous goods as required by the minister;
- (b) maintain a copy of the list of all hazardous substances and waste dangerous goods stored at the facility and their inventory records;
- (c) report any unaccountable discrepancy in inventory or leakage of a hazardous substance or waste dangerous good to the minister in accordance with *The Environmental Spill Control Regulations*, where applicable;
- (d) maintain inspection and maintenance records for the leak detection and containment systems at the facility;
- (e) maintain a copy of the facility emergency response contingency plans, including proposed actions in response to potential accidents related to the operation of the storage facility;

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

(f) retain the records described in clauses (b) and (d) for at least two years from the date of their creation and, on request, make those records available to the minister or any person designated by the minister;

(g) supply at least semi-annually a revised, current copy of:

(i) the list of all hazardous substances and waste dangerous goods stored at the facility; and

(ii) the inventory records of the hazardous substances and waste dangerous goods mentioned in subclause (i);

to the local fire department responsible for the facility; and

(h) supply:

(i) annually; or

(ii) whenever the plan is revised;

a copy of the facility emergency response contingency plans, including proposed actions in response to potential accidents related to the operation of the storage facility to the local fire department responsible for the facility and to the local emergency measures organization.

(1.1) The owner or operator of an underground storage tank for hazardous substances equipped with a metered product dispenser that is not in compliance with the requirements of section 15 prior to December 31, 1995, shall, prior to December 31, 1995:

(a) ensure that level 1 leak detection is performed daily and recorded daily on inventory records in conformance with the requirements prescribed by the United States Environmental Protection Agency publication EPA/530/UST/90-007, "Standard Test Procedures for Evaluating Leak Detection Methods: Statistical Inventory Reconciliation Methods", and that the results are reported to the director on a monthly basis;

(b) in the event of a leak or suspected leak, report the results in accordance with *The Environmental Spill Control Regulations*;

(c) in the event of an inconclusive result, report the occurrence to the director within 72 hours.

(1.2) The owner or operator of an underground storage tank that is not equipped with a metered product dispenser or an underground storage tank that is used solely for the purposes of storing petroleum products to be used by a farmer for his or her own farming purposes, shall:

(a) ensure that release detection monitoring wells are checked for evidence of a leak by an independent party on an annual basis and that the results are reported to the director; and

(b) in the event of the existence of evidence of a leak or suspected leak, report the results in accordance with *The Environmental Spill Control Regulations*.

- (2) The operator or owner of an underground storage tank that contains petroleum products shall:
- (a) conduct product inventory measurements and reconciliation calculations on every underground storage tank on each day the tank is in operation;
  - (b) measure and record the level of any water at the bottom of every underground storage tank at least weekly;
  - (c) maintain and retain for examination by the minister on request of the minister inventory and reconciliation records for every underground storage tank showing the daily as well as cumulative product gain or loss for a period of not less than two years from the date of their creation;
  - (d) perform cathodic protection voltage measurements on every underground storage tank and pipe on an annual basis in conformance with:
    - (i) the Underwriters Laboratories of Canada Publication CAN4-S603.1-M85 Standard for Galvanic Corrosion Protection Systems for Steel Underground Tanks for Flammable and Combustible Liquids, June 1985, as revised, amended or substituted at the time of coming into force of this subclause; or
    - (ii) clause 5.5 and Part 6.0 of the Petroleum Association for the Conservation of the Canadian Environment Publication 87-1 Guideline Specification for the Impressed Current Method of Cathodic Protection of Underground Petroleum Storage Tanks; and
  - (e) retain cathodic protection voltage measurement records for every underground storage tank and pipe until the storage facility is decommissioned and make those records available for examination by the minister on request of the minister.
- (3) The operator or owner of an above-ground storage tank that contains petroleum products shall:
- (a) conduct product inventory measurements and reconciliation calculations on every above-ground storage tank at least weekly;
  - (b) measure and record the level of water at the bottom of each above-ground storage tank at least monthly; and
  - (c) maintain and retain for examination by the minister on request of the minister inventory and reconciliation records for every above-ground storage tank showing the weekly as well as cumulative product gain or loss for a period of not less than two years from the date of their creation.

**Prohibition re storage in above-ground tanks**

**14** No person shall store a hazardous substance or a waste dangerous good in an above-ground storage tank unless the tank and the associated piping and equipment are:

- (a) constructed of a material compatible with the stored hazardous substance or waste dangerous good;
- (b) designed, constructed, supported and installed in a manner able to withstand stresses imposed by the stored hazardous substances or waste dangerous goods or, where applicable, in conformity with the following standards:
  - (i) with respect to shop fabricated steel, above-ground horizontal tanks for flammable and combustible liquids, the standards prescribed by the Underwriters Laboratories of Canada publication CAN4-S601-M84 “Standard for Shop Fabricated Steel Above-ground Horizontal Tanks For Flammable and Combustible Liquids”, May, 1984, as revised, amended or substituted;
  - (ii) with respect to shop fabricated steel, above-ground vertical tanks for flammable and combustible liquids, the standards prescribed by the Underwriters Laboratories of Canada publication CAN4-S630-M84 “Standard for Shop Fabricated Steel Above-ground Vertical Tanks for Flammable and Combustible Liquids”, May, 1984, as revised, amended or substituted;
  - (iii) with respect to steel storage tanks for oil storage, the standards prescribed by the American Petroleum Institute publication API Standard 650 “Welded Steel Tanks For Oil Storage”, July, 1973, as revised, amended or substituted;
  - (iv) with respect to large, welded, low-pressure storage tanks, the standards prescribed by the American Petroleum Institute publication API-Standard-620 “Recommended Rules for Design and Construction of Large, Welded, Low-pressure Storage Tanks”, July, 1973, as revised, amended or substituted;
  - (v) with respect to storage tanks, the standards prescribed by the American Petroleum Institute publications API-STD-12D “Specification for Large Field Welded Production Tanks”, August 1, 1957, or API-SPEC-12F “Specification for Shop Welded Tanks for Storage of Production Liquids”, January, 1982, as those publications are revised, amended or substituted at the time of the coming into force of this subclause;
  - (vi) with respect to pipe for pipe lines, the standards prescribed by the American Petroleum Institute, publication API-SPEC-5L “Specification for Line Pipe”, March, 1975, the ASTM publication ASTM A 53-86 “Standard Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless” and the Underwriters Laboratories of Canada publication CAN3-Z245.1-M86 “Steel Line Pipe”, as those publications are revised, amended or substituted;

(vii) with respect to shop fabricated steel above-ground horizontal utility tanks for flammable and combustible liquids, the standards prescribed by the Underwriters' Laboratories of Canada publication ULC-S643-M1989, "Standard for Shop Fabricated Steel Aboveground Utility Tanks for Flammable and Combustible Liquids," November, 1989, as revised, amended or substituted;

(viii) with respect to contained steel above-ground tanks for flammable liquids, the standards prescribed by the Underwriters' Laboratories of Canada publication ULC/ORD-C142.3-1991, "Contained Steel Above-ground Tank Assemblies for Flammable Liquids," April, 1991, as revised, amended or substituted;

(ix) with respect to contained steel above-ground tanks for used oil, the standards prescribed by the Underwriters' Laboratories of Canada publication ULC/ORD-C142.23-1991, "Aboveground Waste Oil Tanks," January, 1991, as revised, amended or substituted;

(x) with respect to steel above-ground tanks for fuel oil, lubricating oil and used oil, the standards prescribed by the Underwriters' Laboratories of Canada publication CAN/ULC-S602M, "Third Draft, Proposed Third Edition, Standard for Aboveground Steel Tanks for Fuel Oil and Lubricating Oil," August, 1991, as revised, amended or substituted;

(xi) with respect to the storage of hazardous substances or waste dangerous goods, any storage tank approved by the Underwriters' Laboratories of Canada or other nationally recognized standards association where the tanks are used for the purpose for which they were so approved;

(xii) with respect to any tank or pipe line described in subclauses (i) to (ix), the standards mentioned in those subclauses or any nationally recognized standard;

(c) coated with a rust-resistant material where the tank is susceptible to corrosion;

(d) protected from corrosion in conformance with the criteria prescribed by Appendix A of the Underwriters Laboratories of Canada publication CAN4-S6031-M85 "Standard for Galvanic Corrosion Protection Systems for Underground Tanks for Flammable and Combustible Liquids", June, 1985, as revised, amended or substituted where the above-ground storage tank, piping or equipment is in contact with the ground;

(e) equipped with a high level alarm or overflow protection system unless filled by a direct top-fill using a functional automatic shut-off nozzle;

- (f) where of a nominal capacity of greater than 10,000 litres and susceptible to corrosion, subjected to a thickness test immediately after 20 years from the date of the manufacture of the above-ground storage tank and at 10-year intervals after that, and permanently marked immediately after each test, in a conspicuous place and manner, to indicate the:
- (i) date of the test;
  - (ii) remaining life of the above-ground storage tank;
  - (iii) nominal plate thickness of the above-ground storage tank at the time of the test;
- (g) clearly marked to identify the contents;
- (h) immediately surrounded by an impermeable system, which is designed, constructed and maintained:
- (i) to contain any hazardous substances or waste dangerous goods that are released from the storage tank, piping or equipment; and
  - (ii) to prevent the spread of the hazardous substances or waste dangerous goods to the surrounding area or into any storm or sanitary sewer system, water supply or water source;
- (i) either:
- (i) equipped with a transfer spill collector in the off-loading line;
  - (ii) constructed with the piping so that the invert elevation of the connection point is above the crown elevation of the adjacent laterally running pipe so as to prevent spillage during the transfer of hazardous substances or waste dangerous goods into the above-ground storage tank; or
  - (iii) equipped or constructed so as to contain spills at the off-loading connection point in a manner acceptable to the minister; and
- (j) with respect to:
- (i) above-ground storage tanks containing used oil that are emptied using vacuum suction, equipped with suction tubes fitted with leak-tight couplings for connection to the product removal suction hose; and
  - (ii) above-ground storage tanks containing used oil that are manually filled, equipped with an inlet funnel with a minimum 25-litre capacity, a lockable funnel inlet cover and a mesh-screened funnel opening.

**Prohibition re storage in underground tanks**

**15(1)** No person shall store a hazardous substance or a waste dangerous good in an underground storage tank unless the storage tank and the associated piping and equipment:

(a) are constructed of material compatible with the stored hazardous substance or waste dangerous good;

(b) are designed, constructed, supported and installed in a manner able to withstand stresses imposed by the stored hazardous substances or waste dangerous goods or, where applicable, in conformity with the following standards and requirements:

(i) subject to subclause (ii), with respect to steel underground storage tanks, the specifications prescribed by subsection 4.3.8 of the National Research Council of Canada publication “National Fire Code of Canada, 1990”, as revised, amended or substituted at the date of the coming into force of this subclause;

(ii) with respect to steel underground storage tanks, for flammable and combustible liquids, the standards prescribed by the Underwriters Laboratories of Canada publication CAN4-S603-M85 “Standards for Steel Underground Tanks for Flammable and Combustible Liquids”, June, 1985, as revised, amended or substituted at the date of the coming into force of this subclause;

(iii) with respect to reinforced plastic underground storage tanks, the standards prescribed by the Underwriters Laboratories of Canada publication CAN4-S615-M83 “Standards for Reinforced Plastic Underground Tanks for Petroleum Products”, February, 1983, as revised, amended or substituted at the date of the coming into force of this subclause;

(iv) with respect to underground storage tanks for the storage of petroleum products, the standards and requirements prescribed by the publication of the Canadian Council of Ministers of the Environment “Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products — 1989” as revised, amended or substituted at the date of the coming into force of this subclause;

(v) with respect to underground storage tanks containing petroleum products that:

(A) are filled by means of hoses equipped with tight-fill couplings, either a transfer spill prevention system that meets the standards prescribed by the Underwriters’ Laboratories of Canada publication ULC/ORD-C58.19-1992, “Spill Containment Devices for Underground Flammable Liquid Storage Tanks”, January, 1992, or an over-fill protection system that meets the standards prescribed by the Underwriters’ Laboratories of Canada publication ULC/ORD-C58.15-1992, “Overfill Protection Devices for Flammable Liquid Storage Tanks”, January, 1992, as revised, amended or substituted at the coming into force of this paragraph, or a system that, in the opinion of the minister, achieves an equivalent level of performance;

- (B) are filled by means of hoses equipped with functional automatic shut-off nozzles, a transfer spill prevention system that meets the standards prescribed by the Underwriters' Laboratories of Canada publication ULC/ORD-C58.19-1992, "Spill Containment Devices for Underground Flammable Liquid Storage Tanks", January, 1992, as revised, amended or substituted at the coming into force of this paragraph, or a system that, in the opinion of the minister, achieves an equivalent level of performance;
  - (C) are equipped with a product dispenser, a drip collection tray immediately under the dispenser that meets the standards prescribed by the Underwriters' Laboratories of Canada publication ULC/ORD-C107.21, "Under-Dispenser Sumps", June, 1992, as revised, amended or substituted at the coming into force of this paragraph, or a system that, in the opinion of the minister, achieves an equivalent level of performance;
  - (D) employ suction pumps, vertical in-line check valves immediately beneath the product dispenser; and
  - (E) are cathodically protected underground storage tanks, corrosion monitoring terminals in conformity with clauses 4.4.1 and either 4.4.3 or 4.4.4 of the Underwriters' Laboratories of Canada Publication CAN/ULC-S603.1-92, "Standard for Galvanic Corrosion Protection Systems for Steel Underground Tanks for Flammable and Combustible Liquids," September 1992, as revised, amended or substituted at the coming into force of this paragraph;
- (vi) with respect to:
- (A) underground storage tanks containing used oil that are emptied using vacuum suction, suction tubes fitted with leak-tight couplings for connection to the product removal suction hose; and
  - (B) underground storage tanks containing used oil that are manually filled, an inlet funnel with a minimum 25-litre capacity, a lockable funnel inlet cover and a mesh-screened funnel opening;
- (c) where susceptible to external corrosion, are protected from corrosion in conformity with Appendix A of the Underwriters Laboratories of Canada publication CAN4-S603.1-M85 "Standard for Galvanic Corrosion Protection Systems for Underground Tanks for Flammable and Combustible Liquids", June, 1985, as revised, amended or substituted;
  - (d) are equipped with release detection, transfer spill prevention and over-fill protection systems;
  - (e) are less than 25 years of age if constructed of steel and not protected from corrosion;
  - (f) are tested on installation, repair, service, and immediately prior to commencement of use by a method acceptable to the minister;

- (g) if they are underground storage tanks that have been out-of-service for more than one year, have passed a leak test acceptable to the minister before the storage tank and associated piping and equipment is returned to service; and
  - (h) are of a known documented age.
- (2) Every person required to conduct a test pursuant to clause (1)(f) or (g) shall:
- (a) ensure that the test is performed by a qualified person; and
  - (b) report the results of that test to the director within 30 days of the completion of the test.

1 May 92 SR 25/92 s15; 27 Jan 95 SR 3/95 s12.

**Prohibition re storage in certain containers or stockpiles**

**16(1)** No person shall store a hazardous substance or a waste dangerous good in a container or a stockpile unless the container or stockpile is:

- (a) situated in an impermeable area which is constructed and maintained in a condition to prevent any release of a hazardous substance or waste dangerous good from:
  - (i) entering any storm or sanitary sewage system or water supply; and
  - (ii) contaminating any other area;
- (b) surrounded by a fence or other enclosure that is posted with at least one sign adequate to give reasonable notice to persons of the storage of a hazardous substance or waste dangerous good inside the fence or enclosure and containing a telephone number to be used in an emergency at the storage facility;
- (c) subject to subsection (6), clearly marked or labelled as required by the *Transportation of Dangerous Goods Act (Canada)* or in any other manner that clearly and concisely identifies the contents of the container or stockpile;
- (d) kept in segregated storage in accordance with sentences 3.3.6.6(1) and 3.3.6.6(2) of the 1990 National Fire Code of Canada as that code exists at the coming into force of this clause;
- (e) subject to subsection (5), stored apart from human food and ingredients or animal feed and ingredients by means of:
  - (i) a separate warehouse or yard; or
  - (ii) a physical barrier from floor to ceiling and separate containment system; and
- (f) situated apart from a permanent or temporary human residence, or from a building or other facility employed for the rearing or keeping of animals.

(2) Subject to subsection (5), no person shall store more than 2,000 kilograms of hazardous substances, used oil or waste antifreeze solutions or more than 200 kilograms of waste dangerous goods other than used oil or waste antifreeze solutions, in a stockpile or a container within a building or other structure unless the building or structure is:

(a) situated at least 100 metres from a residence or at least 500 metres from a hospital, senior citizen care home, school, day-care centre, prison, group home, special-care home or health care facility, and:

(i) where the building or structure consists of one or two stories, has a structure of non-combustible construction and is equipped with a monitored single-stage fire alarm system installed, tested and maintained in accordance with the National Building Code of Canada (1990), regardless of the occupant load;

(ii) where the building or structure consists of one or two stories, has a structure of combustible construction or combustible and non-combustible construction in combination and:

(A) has floor assemblies that are fire separations and, if constructed of combustible construction, have a fire resistance rating of not less than one hour;

(B) has load-bearing walls, columns and arches that have a fire resistance rating of not less than the rating required for the assemblies they support;

(C) the exterior walls, where constructed of combustible construction, have a fire resistance rating of not less than one hour; and

(D) is equipped with a monitored single-stage fire alarm system installed, tested and maintained in accordance with the National Building Code of Canada (1990), regardless of the occupant load; or

(iii) where the building or structure consists of three or four stories, has a structure of non-combustible construction in accordance with the National Building Code of Canada (1990) and is equipped with a fire suppression system designed, installed, tested and maintained in accordance with the National Fire Code of Canada (1990); or

(b) situated at least 100 metres from a hospital, senior citizen care home, school, day-care centre, prison, group home, special-care home or health care facility and:

(i) subject to subclause (ii), where the building or structure consists of one or two stories, has a structure of non-combustible construction and has floor assemblies, load-bearing walls, columns, arches, exterior walls and roof assembly with a minimum one hour fire resistance rating and is equipped with a monitored single-stage fire alarm system installed, tested and maintained in accordance with the National Building Code of Canada (1990), regardless of the occupant load;

- (ii) where the building or structure consists of one or two stories with a floor area of less than 100 square metres, has a structure of non-combustible construction and is equipped with a monitored single-stage fire alarm system installed, tested and maintained in accordance with the National Building Code of Canada (1990), regardless of the occupant load;
  - (iii) where the building or structure consists of one or two stories, has a structure of combustible construction or combustible and non-combustible construction in combination and has floor assemblies, load-bearing walls, columns, arches, exterior walls and roof assembly with a minimum one-hour fire resistance rating and is equipped with a monitored single-stage fire alarm system installed, tested and maintained in accordance with the National Building Code of Canada (1990), regardless of the occupant load; or
  - (iv) where the building or structure consists of three or four stories, has a structure of non-combustible construction in accordance with the National Building Code of Canada (1990), and is equipped with a fire suppression system designed, installed, tested and maintained in accordance with the National Fire Code of Canada (1990).
- (3) Subject to subsection (5), no person shall store more than 2,000 kilograms of hazardous substances, used oil or waste antifreeze solutions or more than 200 kilograms of waste dangerous goods other than used oil or waste antifreeze solutions, in a stockpile or a container outside of a building or other structure unless the hazardous substance or waste dangerous good is situated at least 500 metres from a residence, hospital, senior citizen care home, school, day-care centre, prison, group home, special-care home or health care facility.
- (4) Subject to subsection (5), no person shall store a hazardous substance or waste dangerous good in a stockpile or a container unless the stockpile or container is:
- (a) situated on land other than land that is subject to flooding on a 1 in 500 year run-off or storm event based on available historical data for natural or engineered watercourses or water bodies; and
  - (b) situated in a storage facility designed so as not to be subject to flooding in the event of a 0.15 metre rainstorm of one-hour duration.
- (5) The requirements of clause (1)(e) and subsection (2) to (4) do not apply if:
- (a) the person storing or proposing to store the hazardous substance or waste dangerous good provides the minister with the information the minister may require and the minister, after considering that information, is of the opinion that the storage does not constitute a danger to the public or the environment; or

- (b) in the case of a storage facility for containers or stockpiles in operation prior to the coming into force of this clause, the person storing or proposing to store hazardous substances or waste dangerous goods obtains:
- (i) the consent of the person in charge of any hospital, senior citizen care home, school, day-care centre, prison, group home, special-care home or health care facility within 100 metres of the storage facility and the consent of any person residing within 100 metres of the storage facility;
  - (ii) the consent of the municipality; and
  - (iii) in the case of a proposed alteration or expansion to the storage facility, approval to alter or expand the facility pursuant to section 10 and the consents mentioned in subclauses (i) and (ii) and following the alteration or expansion the storage facility provides a level of protection acceptable to the minister.
- (6) Clause (1)(c) does not apply to:
- (a) portable containers intended for immediate and complete use;
  - (b) pipes, piping systems and valves; or
  - (c) continuous-run or multiple-use containers.
- (7) No person shall store a hazardous substance or waste dangerous good in a container that is buried either fully or partially beneath the ground.

1 May 92 SR 25/92 s15; 27 Jan 95 SR 3/95 s13.

#### **Decommissioning**

- 17(1)** No person shall remove, abandon, dispose or permanently close all or part of any storage facility without the prior approval of the minister to decommission the storage facility and decontaminate and reclaim or manage and monitor every affected area.
- (2) At least 30 days prior to the removal, abandonment, disposal or permanent closure of a storage facility, the owner or operator of the storage facility shall submit a decommissioning application to the minister containing:
- (a) a description of how the decommissioning is to take place;
  - (b) a description of the plans for the disposal of any remaining equipment, hazardous substances, waste dangerous goods or contaminated materials; and
  - (c) a detailed proposal:
    - (i) to decontaminate and reclaim the affected area;
    - (ii) to monitor and manage the affected area; or
    - (ii) that consists of a combination of decontaminating and reclaiming and monitoring and managing pursuant to subclauses (i) and (ii).

- (3) Before making a proposal pursuant to subclause (2)(c)(ii), the owner or operator shall carry out a site assessment to determine the degree of contamination, the risks to the environment and the risks to the health and safety of the public.
- (4) Within 12 months of the date of approval, an owner or operator of a storage facility, in accordance with the terms of the approval, shall decommission the facility and:
- (a) decontaminate and reclaim the affected area; or
  - (b) initiate monitoring and management of the contamination and associated risks.
- (5) Notwithstanding any other provision in these regulations or any term of an approval, no owner or operator of an underground storage tank shall abandon or permanently close the underground storage tank unless the underground storage tank is:
- (a) emptied;
  - (b) removed from the ground; and
  - (c) rendered unfit for further use for the storage of hazardous substances or waste dangerous goods.
- (6) No person to whom an approval is issued pursuant to this section shall fail to comply with the terms of the approval.
- (7) No person shall decommission, remove, abandon, dispose or permanently close an underground storage tank used for the storage of petroleum products other than by means of the services of a qualified person or under the supervision a person designated by the minister.
- (8) No person shall decommission, remove, abandon, dispose or permanently close an underground storage tank used for the storage of waste dangerous goods other than under the supervision of a person designated by the minister.

27 Jan 95 SR 3/95 s14.

## TRANSFERAL OF WASTE DANGEROUS GOODS

### Transferal of waste dangerous goods

18(1) In this section:

- (a) **“consignee number”** means a valid consignee provincial I.D. number obtained using a form supplied by the minister and used in Part C of the waste manifest described in section 4.15 of the *Transportation of Dangerous Goods Regulations* (Canada), SOR/85-77;
- (b) **“consignor number”** means a valid consignor provincial I.D. number obtained using a form supplied by the minister and used in Part A of the waste manifest described in section 4.15 of the *Transportation of Dangerous Goods Regulations* (Canada), SOR/85-77.

(2) No owner of waste dangerous goods shall transfer, or allow to be transferred, the waste dangerous goods from a storage facility to a mode of transportation without holding a consignor number.

(3) No owner of waste dangerous goods shall transfer, or allow to be transferred, the waste dangerous goods from a mode of transportation to a storage facility without holding a consignee number.

1 May 92 SR 25/92 s15.

## Appendix A

### INDUSTRIAL HAZARDOUS SUBSTANCES

#### *Name of Chemical*

Acetaldehyde/Ethyl aldehyde/Ethanal  
 Acetaldehyde, trichloro-/Chloral  
 Acetamide, N-9H-flouren-2-yl-/2-Acetylaminoflourence  
 Acetic acid  
 Acetic acid, ethyl ester/Ethyl acetate  
 Acetic acid, lead salt/Lead acetate  
 Acetic anhydried  
 Acetone/2-Propanone  
 Acetonitrile/Methyl cyanide  
 Acetophenone/Ethanone, 1-phenyl-  
 Acetylene  
 Acridine  
 Acrylic acid/2-Propenoic acid  
 Adipic acid  
 Alanine, 3-(p-bis(2-chloroethyl)amino)phenyl-, L-/Melphalan/Sarcolysin  
 Aluminum (powder)  
 Aluminum chloride hydrate  
 Aluminum nitrate  
 Amitrole/Amino triazole/3-Amino-1,2,4-triazole  
 Ammonia (anhydrous)  
 Ammonium bifluoride  
 Ammonium dichromate  
 Ammonium hydroxide  
 Ammonium molybdate  
 Ammonium nitrate  
 n-Amyl acetate and isomers  
 n-Amylamine and isomers  
 n-Amyl chloride and isomers  
 Amyl trichlorosilane and isomers  
 Antimony compounds  
 Antimony pentachloride  
 Antimony pentafluoride  
 Antimony sulfate  
 Antimony trichloride  
 Antimony trioxide  
 Ashphalt  
 Barium chlorate  
 Barium chloride  
 Barium chromate  
 Barium hydroxide  
 Barium nitrate  
 Barium perchlorate  
 Barium permanganate  
 Barium peroxide  
 Barium stearate

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

**E-10.2 REG 3**

Bentazon/3-(1-Methylethyl)-1H-2,1,3-benzothiadiazin-4H(3H)-one 2,2-dioxide  
 Benzal chloride/Benzylidene chloride/Benzyl dichloride  
 Benzenamine, 2-methyl-5-nitro-/5-Nitro-o-toluidine  
 Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl) -alpha-hydroxy, ethyl ester/Ethyl 4,4'-dichlorobenzilate  
 1,2-Benzenedicarboxylic acid anhydride/Phthalic anhydride  
 1,2-Benzenedicarboxylic acid, (bis(2-ethylhexyl)) ester/Bis(2-ethylhexyl)phthalate  
 1,2-Benzenedicarboxylic acid, dibutyl ester/Dibutyl phthalate  
 1,2-Benzenedicarboxylic acid, diethyl ester/Diethyl phthalate  
 1,2-Benzenedicarboxylic acid, dimethyl ester/Dimethyl phthalate  
 1,2-Benzenedicarboxylic acid, di-n-octyl ester/Di-n-octyl phthalate  
 Benzene, 1,2-dichloro-/o-Dichlorobenzene  
 Benzene, 1,3-dichloro-/m-Dichlorobenzene  
 Benzene, 1,4-dichloro-/p-Dichlorobenzene  
 Benzene, 1,3-diisocyanatomethyl-/Toluene diisocyanate  
 Benzene, dimethyl-/Xylene (ortho, meta, para)  
 1,2-Benzenediol, Pyrocatechol  
 1,3-Benzenediol/Resorcinol  
 Benzene, hexachloro-/Hexachlorobenzene  
 Benzene, hexahydro-/Cyclohexane  
 Benzene, hydroxy-/Phenol  
 Benzene, methyl-/Toluene  
 Benzene, 1-methyl-2,4-dinitro-/2,4-Dinitrotoluene  
 Benzene, 1-methyl-2,6-dinitro-/2,6-Dinitrotoluene  
 Benzene, 1,2-methylenedioxy-4-propenyl-/Isosafrole  
 Benzene, 1,2-methylenedioxy-4-propyl-/Dihydrosafrole  
 Benzene, (1-methylethyl)-/Isopropylbenzene/Cumene  
 Benzene, nitro-/Nitrobenzene  
 Benzene, 1,2,4,5-tetrachloro-/1,2,4,5-Tetrachlorobenzene  
 Benzotrifluoride  
 Benzyl chloride/(Chloromethyl) benzene  
 (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-/3,3'-Dimethoxybenzidine/Dianisidine  
 (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-/3,3'-Dimethylbenzidine/o-Tolidine  
 Bis(2-chloroethoxy)methane  
 Bis(2-chloroisopropyl) ether/Ether, bis(2-chloro-1-methylethyl)  
 Bismuth (powder)  
 Boron trichloride  
 Boron trifluoride  
 4-Bromophenyl phenyl ether/Benzene, 1-bromo-4-phenoxy-/4-Bromodiphenylether  
 1-Butanamine, N-butyl-N-nitroso-/N-Nitrosodi-n-butylamine  
 1,2,4-Butanetriol trinitrate  
 1-Butanol/n-Butyl alcohol  
 2-Butanone/Methyl ethyl ketone  
 2-Butenal/Crotonaldehyde  
 2-Butene, 1,4-dichloro-/1,4-Dichloro-2-butene  
 Butylate/S-Ethyl diisobutyl thiocarbamate  
 n-Butyl acetate and isomers  
 n-Butyl amine and isomers  
 n-Butyl butyrate  
 n-Butyl formate and isomers  
 n-Butyl mercaptan and isomers/1-Butanethiol  
 tert-Butyltrichlorosilane  
 para-tert-Butyl toluene  
 Butyraldehyde and isomers  
 Cadmium (powder)  
 Cadmium nitrate  
 Calcium  
 Calcium chlorate  
 Calcium chlorite  
 Calcium hydroxide

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

Calcium hypochlorite  
 Calcium nitrate  
 Calcium permanganate  
 Calcium peroxide  
 Calcium resinate  
 Caprylyl peroxide  
 Carbamic acid, ethyl ester/Ethyl carbamate (urethane)  
 Carbamic acid, methylnitroso-, ethyl ester/N-Nitroso-N-methylurethane  
 Carbonochloridic acid, methyl ester/Methyl chloroformate  
 Carbon oxyfluoride/Carbonyl fluoride/Fluorophosgene  
 Carbon tetrachloride/Tetrachloromethane  
 Chlorobenzene/Benzene, chloro-  
 4-Chloro-m-cresol/4-Chloro-3-methylphenol  
 Chloromethyl methyl ether/Methylchloromethyl ether  
 o-Chlorophenol/2-Chlorophenol  
 Chlorosulfonic acid  
 Chlorsulfuron/1-(2-Chlorophenylsulphonyl)-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)urea  
 Chromic acid  
 Cobalt (powder)  
 Cobaltous nitrate  
 Cobaltous resinate  
 Collodion  
 Copper chlorotetrazole  
 Copper compounds  
 Copper nitrate  
 Copper sulfate  
 Cresols  
 Cresylic acid  
 Cupriethylene diamine  
 Cycloheptane  
 Cyclohexanone  
 Cyclohexanone peroxide  
 Cyclohexenyltrichlorosilane  
 Cyclohexyltrichlorosilane  
 Cyclopentane  
 Cyclopentanol  
 Cyclopentene  
 2,4-D, salts and esters/2,4-Dichlorophenoxyacetic acid, salts and esters  
 2,4-DB, salts and esters/Gamma-(2,4-Dichlorophenoxy) butyric acid, salts and esters  
 2,4-DP, salts/Dichloroprop, salts/2-(2,4-Dichlorophenoxy)propionic acid, salts  
 Decalin/Decahydronaphthalene  
 Diallate/S-(2,3-Dichloroallyl)diisopropylthio-carbamate/Avadex  
 1,2-Dibromo-3-chloropropane/Propane, 1,2-dibromo-3-chloro-  
 Dibutyl ether and isomers  
 1,1-Dichloroethylene/Ethene, 1,1-dichloro-/Vinylidene chloride  
 1,2-Dichloroethylene/Ethene, trans-1,2-dichloro-/Acetylene dichloride  
 Dichloroethyl ether/Ether, bis(2-chloroethyl)/Dichloroethyloxide  
 Diclofop-methyl/Diclofop/(RS)-2-[4-(2,4-Dichlorophenoxy)phenoxy]propionic acid  
 Dichloroisocyanuric acid/Dichloro-S-triazine-2,4,6-trione  
 2,4-Dichlorophenol/Phenol, 2,4-dichloro-  
 2,6-Dichlorophenol/Phenol, 2,6-dichloro-  
 1,2-Dichloropropane/Propylene dichloride  
 Dicumyl peroxide  
 Diesel fuel  
 Diethylamine  
 1,4-Diethylene dioxide/1,4-Dioxane  
 Diethylene triamine  
 Diethyl ether/Ethyl ether  
 Difenzoquat/Difenzoquat methyl sulfate/1,2-dimethyl-3,5-diphenyl-1H-pyrazolium methyl sulfate  
 Difluorophosphoric acid

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS**E-10.2 REG 3**

1,2-Dihydro-3,6-pyridazinedione/Maleic hydrazide  
Diisopropylbenzene hydroperoxide  
Dimethylamine/Methanamine, N-methyl-  
Dimethyldichlorosilane  
2,5-Dimethylhexane  
2,4-Dimethylphenol/Xylenol  
2,4-Dinitroaniline  
Dinocap/2,4-Dinitro-6-octylphenyl crotonate I and 2,6-Dinitro-4-octylphenyl crotonate II  
Diphenylamine  
Dipropylamine/1-Propanamine, N-propyl-  
Dipropyl ether  
Di-N-propylnitrosamine/N-Nitroso-N-dipropylamine  
Diuron/3-(3,4-Dichlorophenyl)-1,1-dimethylurea  
Ethalfuralin/N-Ethyl-N-(2-methylallyl)-2,6-dinitro-4-trifluoromethylaniline  
Ethane, 1,1-dichloro-/1,1-Dichloroethane/Ethylene dichloride  
1,2-Ethanediybis(carbamodithioic acid)/Ethylenebis-(dithiocarbamic acid)  
Ethane, pentachloro-/Pentachloroethane  
Ethane, 1,1,1,2-tetrachloro-/1,1,1,2-Tetrachloroethane/Acetylene Tetrachloride  
Ethane, 1,1,2,2-tetrachloro-/1,1,2,2-Tetrachloroethane  
Ethanethioamide/Thioacetamide  
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl-)/Methoxychlor  
Ethene, 1,1,2,2-tetrachloro-/Tetrachloroethylene or Perchloroethylene  
Ethyl alcohol  
Ethylamine  
Ethyl acrylate/2-propenoic acid, ethyl ester  
Ethylbenzene  
Ethyl butyrate  
Ethyl chloride  
Ethyl chloroformate  
Ethylene cyanohydrin/beta-Hydroxypropionitrile  
Ethylene diamine  
Ethyl formate  
Ethyl methacrylate/Methacrylic acid, ethyl ester  
Ethyl nitrate  
Ethyl propionate  
Fenoxaprop-ethyl/2-[4-(6-Chlorobenzoxazol-2-yloxy)phenoxy]propionic acid  
Fluazifop/Fluazifop-butyl/(RS)-2[4-(5-Trifluoromethyl-2-pyridyloxy)phenoxy]propionic acid  
Formaldehyde/Methylene oxide  
Formic acid/Methanoic acid  
Furan/Furfuran  
2,5-Furandione/Maleic anhydride  
Furan, tetrahydro-/Tetrahydrofuran  
Gasoline  
Glycidylaldehyde/Glycidaldehyde  
n-Heptane and isomers  
1-Heptene and isomers  
Hexamethylenediamine  
n-Hexane and isomers  
1-Hexene and isomers  
n-Hexylamine and isomers  
Hexyltrichlorosilane  
Hydrazine (hydrate)/Diamide hydrate  
Hydriodic acid  
Hydrobromic acid  
Hydrochloric acid  
Hydrogen (liquified)  
Hydrogen peroxide  
Hydroquinone  
Hypochlorite compounds  
Indium

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

Invert drilling fluids  
Isobutyl alcohol/Isobutanol  
Isooctane  
Isooctene (mixture of isomers)  
Isopentane  
Isoprene  
Isopropanol  
Isopropyl acetate  
Isopropyl acetylene  
Isopropylamine  
Isopropyl chloride  
Isopropyl ether  
Lithium hypochlorite  
Lithium peroxide  
Magnesium  
Magnesium chlorate  
Magnesium nitrate  
Magnesium perchlorate  
Magnesium peroxide  
Manganese (powder)  
Manganese acetate  
Manganese nitrate  
MCPA, salts and esters/4-Chloro-2-methylphenoxyacetic acid, salts and esters  
MCPB, salts/4-(4-Chloro-2-methylphenoxy)butyric acid, salts  
Mecoprop, salts/(±)Alpha-4-Chloro-2-methylphenoxy)propionic acid, salts  
Metal hydrides  
Methacrylonitrile/2-propenenitrile,2-methyl  
Methane, chloro-/Methyl chloride  
Methanethiol/Methyl mercaptan  
Methanol/Methyl alcohol  
Methyl acetate  
Methyl acetone (mixture of acetone, methyl acetate and methyl alcohol)  
Methylamine  
N-Methylaniline/Toluidine  
1-Methylbutadiene/1,3-Pentadiene/Piperylene  
2-Methyl-1-butene  
3-Methyl-1-butene  
Methyl butyl ether and isomers  
Methyl butyrate and isomers  
Methylcyclohexane  
Methyldichlorosilane  
Methyl ethyl ether  
Methyl formate  
Methyl isopropenyl ketone  
Methylmagnesium bromide  
Methylmagnesium chloride  
Methylmagnesium iodide  
Methyl Methacrylate/2-Propenoic acid, 2-methyl-,methyl ester  
4-Methyl-2-pentanone/Methyl isobutyl ketone  
Methyl propionate  
Methyl valerate and isomers  
Methyl vinyl ketone  
Metribuzin/4-Amino-6-(1,1-Dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one  
Molybdenum (powder)  
Monofluorophosphoric acid  
Naphtha (of petroleum or coal tar origin)  
Naphthalene  
1-Naphthylamine/alpha-Naphthylamine  
Neohexane/2,2-Dimethylbutane

**E-10.2 REG 3**

Nickel (powder)  
Nickel chloride  
Nickel nitrate  
Nitric acid  
Nitrobenzoic acid (meta, para)  
4-Nitrobiphenyl  
Nitrochlorobenzene (ortho, meta, para)  
Nitrohydrochloric acid/aqua regia  
1-Nonene and isomers/Nonylene  
n-Octane and isomers  
1-Octene  
Oleum/Fuming Sulfuric Acid  
Oxalic acid  
Paracetaldehyde  
n-Pentane and isomers  
2-Pentanone and isomers  
Perchloric acid  
Perchloryl fluoride  
Petroleum ether  
Petroleum products  
Phenol  
Phenylphenol  
Phosphoric acid  
Phosphorus (amorphous, red)  
2-Picoline/2-Methylpyridine  
Potassium bromate  
Potassium dichloroisocyanurate/Potassium-dichloro-s-triazinetrione  
Potassium dichromate  
Potassium dinitrobenzofuroxan  
Potassium fluoride  
Potassium hydroxide  
Potassium nitrate  
Potassium nitrite  
Potassium perchlorate  
Potassium permanganate  
Propanil/3,4-Dichloropropionilide  
1-Propanamine/n-Propylamine  
2-Propanone/Acetone  
Propionaldehyde  
Propionic acid  
Propionic acid, 2-(2,4,5-trichlorophenoxy)-/Silvex  
n-Propyl acetate  
n-Propyl alcohol  
Propylene oxide  
n-Propyl formate  
n-Propyl mercaptan/1-Propanethiol  
Pyridine/Azabenzene  
Selenious acid/Monohydrated selenium dioxide  
Sethoxydim/(±)-2-(1-Ethoxyiminobutyl)-5-[2-(ethylthio)propyl]-3-hydroxy cyclohex-2-enone  
Silicon tetrachloride  
Silver nitrate  
Sodium aluminate  
Sodium azide  
Sodium bromate  
Sodium carbonate peroxide  
Sodium chlorate  
Sodium chlorite  
Sodium dichloroisocyanurate/Sodium dichloro-S-triazinetrione  
Sodium hydrosulfite/Sodium bisulfite

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

E-10.2 REG 3

Sodium hydroxide  
 Sodium hypochlorite  
 Sodium methylate/Sodium methoxide  
 Sodium nitrate  
 Sodium oxide/Sodium monoxide  
 Sodium perchlorate  
 Sodium permanganate  
 Stannic chloride  
 Strontium peroxide  
 Styrene  
 Succinic acid peroxide  
 Sulfur trioxide  
 Sulfuric acid  
 Sulfurous acid  
 TCA/Trichloroacetic acid/Sodium trichloroacetate  
 Tetralin/Tetrazenes/1,2,3,4 - Tetrahydronaphthalene  
 Thorium (powder)  
 Titanium (powder)  
 Titanium sulfate  
 Titanium tetrachloride  
 Toluidine  
 Triallate/S-2,3,3-Trichloroallyl diisopropylthiocarbamate  
 Trichloroborane  
 Trichloroisocyanuric acid  
 Trimethylamine  
 Turpentine  
 Uracil, 5-(bis(2-chloroethyl)amino)-/Uracil mustard  
 n-Valeraldehyde and isomers/Amyl aldehyde/pentanal  
 Vinyl acetate  
 Vinyl ethyl ether  
 Vinyl isopropyl ether  
 Zinc (powder)  
 Zinc ammonium nitrate  
 Zinc chloride  
 Zinc nitrate  
 Zinc permanganate  
 Zirconium (powder)  
 Zirconium chloride

1 May 92 SR 25/92 s16; 27 Jan 95 SR 3/95 s15.

**Appendix B**

## ACUTE HAZARDOUS SUBSTANCES

***Name of Chemical***

Acetaldehyde, chloro-/Chloroacetaldehyde/2-chloro-1-ethanal  
 Acetamide, N-(aminothioxomethyl)-/1-Acetyl-2-thiourea  
 Acetamide, 2-fluoro-/Fluoroacetamide  
 Acetic acid, fluoro-, sodium salt/Sodium fluoroacetate  
 Acetic acid, thallium (I) salt/Thallium (I) acetate  
 Acetimidic acid, N-((methylcarbamoyl)oxy)thio-, methyl ester/Methomyl  
 Acetone cyanohydrin/2-Methylactonitrile/2-Hydroxy -2- methylpropane nitrile  
 3-(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts/Warfarin  
 Acetyl benzoyl peroxide  
 Acetyl bromide  
 Acetyl chloride/Acetic chloride/Ethanoylchloride  
 Acetyl peroxide  
 Acrolein/2-Propenal

**E-10.2 REG 3**

Acrylamide/Propenamide  
Acrylonitrile/2-Propenenitrile  
Adiponitrile  
Aldicarb/Temik  
Aldrin  
Alkyl aluminum chloride  
Alkyl aluminum compounds  
Allyl acetate  
Allyl alcohol/2-Propen-1-ol  
Allyl bromide/3-Bromopropene  
Allyl chloride/3-Chloropropene  
Allyl chlorocarbonate/Allyl chloroformate  
Allyl cyanide/vinyl acetonitrile/3-Butenenitrile  
Allyl fluoride/3-Fluoropropene  
Allyltrichlorosilane  
Aluminum chloride (anhydrous)  
Aluminum phosphide/Phostoxin  
Aluminum borohydride  
Aluminum hydride  
2-Aminopyridine  
4-Aminopyridine/p-Aminopyridine  
Ammonium arsenate  
Ammonium cyanide  
Ammonium fluoride  
Ammonium perchlorate  
Ammonium permanganate  
Ammonium picrate/Phenol, 2,4,6-trinitro-, ammonium salt  
Ammonium sulfide  
Ammonium vanadate/Ammonium metavanadate  
Aniline/Phenylamine  
Anisoyl chloride  
Antimony  
Antimony pentasulfide  
Antimony potassium tartrate  
Antimony trifluoride  
Antimony trisulfide  
Arsenic acid  
Arsenic halides  
Arsenic (III) oxide/Arsenic trioxide  
Arsenic pentaselenide  
Arsenic pentoxide/Arsenic (V) oxide  
Arsenic sulfide  
Arsenious acid and salts  
Arsine  
Arsine, diethyl-/Diethylarsine  
Aziridine/Ethyleneimine  
Azodrin  
Barium  
Barium azide  
Barium cyanide  
Barium sulfide  
Barium oxide  
Bayluscide  
Bendiocarb  
Benzenamine, 4-chloro-/p-Chloroaniline  
Benzenamine, 4-nitro-/p-Nitroaniline  
Benzene, (chloromethyl)-/Chlorotoluene  
Benzenethiol/Phenyl mercaptan  
Benzene, 1,3,5-trinitro-/1,3,5-Trinitrobenzene

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

p-Benzoquinone/Cyclohexadienedione  
Bidrin  
Bis (2-chloroisopropyl, ether/Ether, bis (2-chloro-1-methylethyl)  
Boranes/Boron hydrides  
Bordeaux arsenites  
Bromine  
Bromine cyanide/Cyanogen bromide  
Bromine pentafluoride  
Bromine trifluoride  
Bromoacetone/2-Propanone, 1-bromo-  
Bromoxynil  
Brucine/2,3-Dimethoxystrychnidin-10-one  
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-/Hexachlorobutadiene  
2-Butanone peroxide/Methyl ethyl ketone peroxide  
tert-Butyl hydroperoxide  
n-Butyl lithium and isomers  
tert-Butyl peroxyacetate/tert-Butyl peracetate  
tert-Butyl peroxybenzoate  
tert-Butyl peroxy-pivalate  
Cadmium chloride  
Cadmium cyanide  
Cadmium fluoride  
Cadmium oxide  
Cadmium phosphate  
Cadmium sulfate  
Cadmium sulfide  
Calcium arsenate  
Calcium arsenite  
Calcium carbide  
Calcium cyanide  
Calcium hydride  
Calcium phosphide  
Camphene, octachloro-/Toxaphene  
Carbamide, N-ethyl-N-nitroso-/1-Nitroso-1-ethylurea  
Carbamide, N-methyl-N-nitroso-/1-Nitroso-1-methylurea  
Carbamide, thio-/Thiourea/Thiocarbamide  
Carbon bisulphide/Carbon disulphide  
Carbonyl chloride/Phosgene  
Carbophenothion/Phosphorodithioic acid  
Chlordane  
Chlorfenvinphos  
Chlorinated dibenzo dioxins  
Chlorinated dibenzo-furans/Chlorinated phenylene oxide  
Chlorine  
Chlorine cyanide/Cyanogen chloride  
Chlorine dioxide  
Chlorine trifluoride  
alpha-Chloroacetophenone  
Chloroacetyl chloride  
Chlorocyanohydrin  
para-Chlorobenzoyl peroxide  
1-Chloro-2,3-epoxypropane/Epichlorhydrin/ECH  
ortho-Chlorobenzylidene malonitrile  
1-(o-Chlorophenyl)thiourea/2-Chlorophenyl thiourea  
2-Chloroethyl vinyl ether/Ethane, 2-chloroethoxy-  
Chloropicrin  
3-Chloropropionitrile/3-Chloropropanenitrile  
Chlorpyrifos  
Chromyl chloride

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

**E-10.2 REG 3**

Cocculus, Fishberry/Picrotoxin  
 Copper acetoarsenite  
 Copper acetylide  
 Copper arsenate  
 Copper arsenite  
 Copper chloride  
 Copper cyanides  
 Coroxon  
 Coumafuryl  
 Coumaphos  
 Crimidine  
 Cyanides (soluble cyanide salts) not elsewhere specified  
 Cyanogen/Ethanedinitrile  
 Cyanamide  
 Cyanazine  
 Cyanuric triazide  
 Cycloheximide/Actidone  
 DDD/Dichlorodiphenyldichloroethane  
 DDT/Dichlorodiphenyltrichloroethane  
 DDVP/Dimethyldichlorovinyl phosphate/Dichlorovos  
 Decaborane/Decaboron tetradecahydride  
 Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta(c,d)-pentalen-2- one/Kepona or Chlordecone  
 Deltamethrin  
 Demeton/Systox  
 Diazinon  
 Diamine/Hydrazine  
 Diazodinitrophenol  
 Diborane/Boroethane  
 Dichlorophenylarsine/Phenyldichloroarsine  
 1,3-Dichloropropene/Propene, 1,3-dichloro-  
 Dieldrin  
 Diethylaluminum chloride  
 Diethyl chlorovinyl phosphate  
 Diethyldichlorosilane  
 Diethylene glycol dinitrate  
 N,N-Diethylhydrazine/Hydrazine, 1,2-diethyl-  
 O,O-Diethyl-S-(2-(ethylthio)ethyl) phosphorodithioate/Disulfoton  
 O,O-Diethyl-S-methyl-dithiophosphate/Phosphoro-dithioic acid, O,O-diethyl-, S-methyl ester  
 Diethyl zinc  
 Diethyl-p-nitrophenyl phosphate/Phosphoric acid, diethyl p-nitrophenyl ester/para. Oxon  
 O,O-Diethyl-S-phosphoro-dithiolate  
 O,O-Diethyl O,2-pyrazinyl phosphorothioate/Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester/Zinophos  
 Diisopropyl peroxydicarbonate  
 Diisopropylfluorophosphate/Phosphorofluoric acid,  
 Diglycidyl ether  
 Dimefox/Bis (dimethylamino) fluorophosphine oxide  
 Dimethoate  
 alpha, alpha-Dimethylbenzylhydroperoxide/Cumene hydroperoxide  
 1,1-Dimethylhydrazine/Hydrazine, 1,1-dimethyl-  
 1,2-Dimethylhydrazine/Hydrazine, 1,2-dimethyl-  
 O,O-Dimethyl O-(p-nitrophenyl) phosphorothioate/Methyl parathion  
 Dimethylnitrosamine/N-Nitrosodimethylamine  
 Dimethyl sulphate/Sulphuric acid, dimethyl ester  
 Dimethyl sulfide/Methyl sulfide/Methyl thiomethane  
 Dinitrobenzene (ortho, meta, para)  
 Dinitrochlorobenzene  
 4,6-Dinitro-o-cresol and salts/Phenol, 2,4-dinitro-6-methyl-, and salts  
 4,6-Dinitro-o-cyclohexylphenol/Phenol, 2-cyclohexyl-4,6-dinitro-

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

Dinitrophenol (2,3-, 2,4-,2,6-isomers)  
2,4-Dinitrophenylhydrazine  
Dinoseb  
Dioxathion  
Diphenyldichlorosilane  
Diphenyl disulfide  
Diphosphoramidate, octamethyl-/Octamethylpyro-phosphoramidate/Schradan  
Dipicrylamine/2,4,6,2',4',6' - Hexanitrodiphenylamine  
Diquat/1,1'-Ethylene-2,2'-bipyridylium ion  
2,4-Dithiobiuret/2-Thio-1-(thiocarbonyl)  
Dithione  
Dithiopyrophosphoric acid, tetraethyl ester/Tetraethyl dithiopyrophosphate/Bladafume  
Dodecyltrichlorosilane  
Dyfonate/Fonofos  
Endosulfan/5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro-, cyclic sulphite  
Endothal/7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid  
Endothion  
Endrin/1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a- octahydro-endo, endo-1,4:5,8- dimethanonaphthalene  
Epichlorohydrin  
Epinephrine/Adrenaline  
EPN/Ethyl - p - nitrophenyl thionobenzene phosphate  
Ethanamine, 1,1-dimethyl-2-phenyl-/alpha,alpha-Dimethylphenethylamine/ Phenylpropylmethylamine  
Ethenamine, N-methyl-N-nitroso-/N-Nitrosomethyl-vinylamine  
Ethion  
Ethylene oxide/Oxirane/1,2 - Epoxyethane  
Ethyl cyanide/Propionitrile  
Ethyl mercaptan/Ethanethiol  
Ethyl nitrite/Nitrous ether  
Ethylchloroarsine  
Ethylchlorosilane  
Ethylphenyldichlorosilane  
Ethyltrichlorosilane  
Famphur/Phosphorothioic acid, O,O-dimethyl O-(p-((dimethylamino)sulfonyl)phenyl) ester  
Fensulfothion/Dasanit  
Ferric arsenate  
Ferrous arsenate  
Fluoboric acid  
Fluoride salts  
Fluorine  
Fluoroacetanilide  
Fluoroacetic acid, sodium salt/Sodium fluoroacetate  
Fluorosulfonic acid  
Fulminic acid, mercury (II) salt/Fulminate of mercury  
Furadan/Carbofuran  
2-Furancarboxaldehyde/Furfural  
Gamma - B.H.C.  
Glycolonitrile/Formaldehyde cyanohydrin  
Guanidine nitrate  
Guanidine, N-nitroso-N-methyl-N'-nitro-/N-Methyl-N'-nitro-N- nitrosoguanidine  
Guanyl nitrosaminoguanilydene hydrazine  
Guthion  
Hafnium compound  
Heptachlor/Isodrin  
Hexachlorohexahydro-exo, exo-dimethanonaphthalene  
Hexachlorophene/2,2'-Methylenebis-(3,4,6-trichlorophenol)  
Hexadecyltrichlorosilane  
Hexafluorophosphoric acid  
Hexaethyl tetraphosphate/Tetraphosphoric acid, hexaethyl ester

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS**E-10.2 REG 3**

Hydrazine (anhydrous)  
Hydrazine azide  
Hydrazinecarbothioamide/Thiosemicarbazide  
Hydrazine, methyl-/Methylhydrazine  
Hydrazoic acid  
Hydrocyanic acid/Hydrogen cyanide  
Hydrofluosilicic acid  
Hydrogen fluoride  
Hydrogen phosphide/Phosphine  
Hydrogen selenide  
Hydrogen sulfide  
Hydroxylamine/Oxammonium  
Iodine monochloride  
Ioxynil  
Isocyanic acid, methyl ester/Methyl isocyanate  
Isopropyl mercaptan  
meta-Isopropylphenyl-N-methylcarbamate  
Kinoprene  
Lead arsenate  
Lead arsenite  
Lead azide  
Lead cyanide  
Lead Styphnate/Lead trinitroresorcinate  
Lithium  
Lithium aluminum hydride  
Lithium ferrosilicon  
Lithium hydride  
Lithium silicon  
Magnesium arsenate  
Magnesium arsenite  
Malonitrile/Malonic dinitrile/Cyanoacetonitrile  
Manganese arsenate  
Manganese Methylcyclopentadienyl manganese tricarbonyl  
Mannitol hexanitrate  
Mercuric acetate  
Mercuric chloride  
Mercuric cyanide  
Mercuric oxycyanide  
Mercuric thiocyanide  
Mercurous iodide  
Mercury, (acetato)phenyl-/Phenylmercuric acetate  
Methamidophos/*O,S*-Diethyl phosphoramidothioate  
Methane, tetranitro-/Tetranitromethane  
Methanethiol, trichloro-/Trichloromethanethiol  
Methidathion  
Methomyl  
Methoxyethylmercuric chloride  
Methylaluminum sesquibromide  
Methylaluminum sesquichloride  
2-Methylaziridine/Propyleneimine  
Methyldichloroarsine  
4,4-Methylene bis(2-chloro-aniline)  
Methyltrichlorosilane  
Mevinphos  
Methylisothiocyanate  
Mocap/0-Ethyl, S,S - dipropylphosphodithioate  
Monochloroacetic acid  
Monochloroacetone  
1,4-Naphthalenedione/1,4-Naphthoquinone  
alpha-Naphthylthiourea/Thiourea, 1-naphthalenyl-

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

## E-10.2 REG 3

Nickel arsenate  
Nickel arsenide  
Nickel carbonyl/Nickel tetracarbonyl  
Nickel cyanide/Nickel (II) cyanide  
Nicotine and salts/Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)- and salts  
Nitric oxide/Nitrogen (II) oxide  
Nitroaniline (ortho, meta, para)  
Nitro carbo nitrate  
Nitrocellulose  
Nitrogen dioxide/Nitrogen (IV) oxide  
Nitrogen mustard  
Nitroglycerin/1,2,3-Propanetriol, trinitrate-  
Nitrophenol (meta)  
Nitropropane/Propane, 2-nitro-  
Nitrosoguanidine  
Nitrostarch  
Nonyltrichlorosilane  
Octachlorocamphene  
Octadecyltrichlorosilane  
Octyltrichlorosilane  
Osmium oxide/Osmium tetroxide  
Oxydemeton - methyl  
Oxygen difluoride/Fluorine monoxide  
Para-oxon/Diethyl - p - nitrophenyl phosphate  
Paraquat  
Parathion/Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester  
Pentaborane  
Pentachlorophenol/Phenol, pentachloro-  
Pentaerythrite tetra-nitrate  
Peracetic acid (40% solution)  
Perchloromethyl mercaptan/Trichloromethylsulfonyl chloride  
Phenylenediamine (para)  
Phenylhydrazine hydrochloride  
Phenyltrichlorosilane  
N-Phenylthiourea/Phenylthiocarbamide  
Phorate/Phosphorothioic acid, O,O-diethyl S-(ethylthio)methyl ester  
Phosfolan/Cyolane  
Phosphamidon  
Phosphoric anhydride  
Phosphorus (white or yellow)  
Phosphorus oxybromide  
Phosphorus oxychloride  
Phosphorus pentachloride  
Phosphorus sesquisulfide  
Phosphorus sulphide/Phosphorus pentasulphide  
Phosphorus tribromide  
Phosphorus trichloride  
Picramide/Trinitroaniline  
Picric acid  
Picryl chloride/2-Chloro-1, 3, 5-trinitrobenzene  
Plumbane, tetraethyl-/tetraethyl lead  
Potasan  
Potassium  
Potassium arsenate  
Potassium arsenite  
Potassium bifluoride  
Potassium cyanide  
Potassium dicyanoargentate/Potassium silver cyanide  
Potassium hydride  
Potassium peroxide

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS**E-10.2 REG 3**

Potassium sulfide  
Primicarb  
Propargyl alcohol/2-Propyn-1-ol  
Propargyl bromide  
beta-Propiolactone  
Propoxor  
Pyrophosphoric acid, tetraethyl ester/Tetraethyl pyrophosphate  
n-Propyltrichlorosilane  
Pyrazophos/O,O-Diethyl-O-(5-methyl-6-ethoxycarbonyl-pyrazolo-(1,5-a)-pyrimidin-2-yl)- phosphorothio-  
ate  
Pyrosulfuryl chloride/Disulfonyl chloride  
Quinone  
Raney nickel  
Reserpine/3,4,5-Trimethoxybenzoyl methyl reserpate  
Rotenone  
Schradan/Octamethyl pyrophosphoramidate  
Selenium dioxide/Selenium oxide  
Selenium disulphide/Sulphur selenide  
Selenium fluoride/Selenium hexafluoride  
Silver acetylide  
Silver azide  
Silver cyanide  
Sodium  
Sodium aluminum hydride  
Sodium amide  
Sodium arsenate  
Sodium arsenite  
Sodium bromate  
Sodium cacodylate  
Sodium chromate  
Sodium cyanide  
Sodium dichromate  
Sodium fluoride  
Sodium hydride  
Sodium hypochlorite (anhydrous)  
Sodium nitrite  
Sodium peroxide  
Sodium picramate  
Sodium peroxide  
Sodium potassium alloy  
Sodium selenate  
Sodium sulfide and sodium hydrosulfide  
Strontium arsenate  
Strontium nitrate  
Strontium sulphide  
Strychnine and salts  
Sulfide salts (soluble)  
Sulfur chloride  
Sulfotep/Tetraethyldithiopyrophosphate  
Sulfur pentafluoride  
Sulfuryl chloride  
Sulfuryl fluoride  
Tellurium hexafluoride  
Telodrin/Isobornyl thiocynoacetate (82%)  
Terbufos  
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)  
Tetramethyl lead  
Tetramethyl succinonitrile  
Thallium  
Thallium compounds

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

E-10.2 REG 3

Thallium (I) nitrate/Thallos nitrate  
 Thallium (III) oxide/Thallic oxide  
 Thallium (I) selenite  
 Thallium (I) sulphate/Sulphuric acid, thallium (I) salt  
 Thiocarbonylchloride/perchloromethyl mercaptan/Thiophosgene  
 Thionazin  
 Thionyl chloride/Sulfurous oxychloride  
 Thiophosphoryl chloride/Phosphorous sulfochloride  
 Tin compounds (organic)  
 Trichloronate  
 Trichlorosilane  
 Tris (1-Aziridiny) phosphine oxide  
 Trinitroanisole/Methyl picrate  
 Trinitrobenzene  
 2,4,6-Trinitrobenzoic acid  
 Trinitronaphthalene  
 2,4,6-Trinitroresorcinol/Styphnic acid  
 Trinitrotoluene  
 Uranyl nitrate  
 Urea nitrate  
 Vanadium oxytrichloride  
 Vanadium pentoxide/Vanadium (V) oxide  
 Vanadium tetrachloride  
 Vinyltrichlorosilane  
 Warfarin  
 Zinc arsenate  
 Zinc arsenite  
 Zinc cyanide  
 Zinc peroxide  
 Zinc phosphide, when present at concentrations greater than 10 percent

1 May 92 SR 25/92 s16.

**Appendix C****ENVIRONMENTAL PERSISTENT OR CHRONIC HAZARDOUS SUBSTANCES*****Name of Chemical***

Acephate/Orthene/O,S-Dimethyl acetylphosphoroamidothioate  
 Acetamide, N-(4-ethoxyphenyl)-/Phenacetin/Acetophenetidin  
 Aminodiphenyl/p-Xenylamine  
 Ammonium chromate  
 Anthracene  
 Arsenic  
 Asbestos (including chrysotile, omosite, crocidolite, tremolite, anthophyllite, and actinolite)  
 Atrazine/2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine  
 Azathioprine  
 Barium fluoride  
 Barium fluosilicate  
 Benazolin, salts/4-Chloro-2-oxobenzothiazolin-3-ylacetic acid, salts  
 Bensulide/2-Benzenesulphonamidoethyl O,O-di-isopropyl phosphorodithioate  
 Benz(a)anthracene/1,2-Benzanthracene  
 Benz(j)aceanthrylene, 1,2-dihydro-3-methyl-/3-Methylchloanthrene  
 3,4-Benz(c)acridine/Benz(c)acridine  
 Benzenamine, 4-chlor-2-methyl-/4-chloro-O-toluidine hydrochloride/2-Amino-4-chlorotoluene  
 Benzenamine, N,N'-dimethyl-4-phenylazo-/Dimethylaminoazobenzene

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

**E-10.2 REG 3**

Benzenamine, 4,4'-methylenebis (2-chlor-)/4,4'-Methylenebis (2-chloroaniline)  
 Benzenamine, 2-methyl-, hydrochloride/o-Toluidine hydrochloride  
 Benzene  
 Benzene, 1,2-methylenedioxy-4-olyl-/Safrole  
 Benzene, pentachloro-/Pentachlorobenzene  
 Benzene, pentachloronitro-/Pentachloronitrobenzene  
 Benzdine/4,4'-Diaminobiphenyl  
 1,2-Benzothiazolin-3-one, 1,1-dioxide and salts/Saccharine and salts  
 Benzo(j,k)fluorene/Fluoranthene  
 Benzo(a)pyrene/3,4-Benzopyrene  
 1,2-Benz(a)anthracene, 7,12-dimethyl-/9,10-Dimethyl-benz(a)anthracene  
 Benzotrichloride/Benzene, trichloromethyl-/1,2-Benzphenanthrene/Chrysene  
 Beryllium compounds  
 Beryllium dust/Beryllium, metal powder  
 2,2'-Bioxirane/d-Threitol,1,2:3,4-dianhydro-(1,1'-biphenyl) -4,4'-diamine, 3,3'-dichloro-/3,3'- Dichloroben-  
 zidine  
 Bis (chloromethyl) ether/Dichlorodimethyl ether  
 Bis (methylmercuric) sulfate  
 Bromacil/5-Bromo-3-sec-butyl-6-methyluracil  
 Bromoform/Tribromomethane  
 1,4-Butanediol dimethanesulphonate/Myleran  
 Cadmium compounds  
 Calcium chromate/Chromic acid, calcium salt  
 Calcium fluoride  
 Carbaryl/1-Naphthyl methylcarbamate  
 Chloramben, salts/3-Amino-2,5-dichlorobenzoic acid, salts  
 Chlorambucil  
 Chlornaphazine/2-Naphthylamine, N,N'-bis-(2-chloroethyl)-  
 Chloroform/Trichloromethane  
 Chlorpropam/Isopropyl N-(3-chlorophenyl)carbamate  
 beta-Chloronaphthalene/Naphthalene, 2-chloro-  
 Chromium  
 Chromic oxide  
 Creosote  
 Cyclophosphamide/Endoxan  
 Cypermethrin/(±)Alpha-Cyano-3-phenoxybenzyl(±)cis,trans-3-(2,2-dichloro vinyl)-2,2- dimethylcyclopro-  
 pane carboxylate  
 Dalapon, salts/2,2-Dichloropropionic acid, salts  
 Diaminotoluene/Toluediamine  
 Dicamba, salts/2-Methoxy-3,6-dichlorobenzoic acid, salts  
 Diethylstilbestrol/4,4'-Stilbenediol, alpha, alpha'-diethyl-  
 Dibenz(a,h)anthracene/1,2,5,6-Dibenzanthracene  
 Dibromomethane/Methylene bromide  
 Dichlorodifluoromethane/Methane, dichlorodifluoro-  
 Dichloromethane/Methylene chloride  
 Dicolof/1,1-Bis(p-chorophenyl)-2,2,2-trichloroethanol  
 EPTC/Eptam/S-Ethyl dipropylthiocarbamate  
 Ethanamine, N-ethyl-N-nitroso-/N-Nitrosodiethylamine  
 Ethane, 1,2-dibromo-/Ethylene dibromide  
 Ethane, 1,1,1,2,2,2-hexachloro-/Hexachloroethane  
 Ethane, 1,1,1-trichloro-/1,1,1-Trichloroethane/Methyl chloroform  
 Ethane, 1,1,2-trichloro-/1,1,2-Trichloroethane/Vinyl trichloride  
 Fenvalerate/Alpha-Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methyl butyrate  
 Flamprop-methyl/Methyl N-benzoyl-N-(3-chloro-4-fluorophenyl)-2-aminopropionate  
 Fosamine/Fosamine-ammonium/Ammonium ethyl carbamoylphosphonate  
 Glufosinate, ammonium salt/Glufosinate-ammonium  
 Glyphosate, salts/N-(Phosphonomethyl)glycine  
 Hexachlorocyclohexane (gamma isomer)/Lindane  
 Hexachlorocyclopentadiene  
 Hexazinone/3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2, 4-dione

HAZARDOUS SUBSTANCES AND  
WASTE DANGEROUS GOODS

E-10.2 REG 3

Lead carbonate  
 Lead chlorite  
 Lead dioxide  
 Lead nitrate  
 Lead oxide  
 Lead phosphate/Phosphoric acid, lead salt  
 Lead subacetate/Monobasic lead acetate  
 Linuron/N-(3,4-Dichlorophenyl)-N'-methoxy-N'-methylurea  
 Malathion/O,O-Dimethyl S-1,2-di(ethoxycarbonyl)ethyl phosphordithioate  
 Mercuric ammonium chloride  
 Mercuric benzoate  
 Mercuric bromide  
 Mercuric iodide  
 Mercuric nitrate  
 Mercuric oleate  
 Mercuric oxide  
 Mercuric oxide (red and yellow)  
 Mercuric-potassium iodide  
 Mercuric salicylate  
 Mercuric subsulfate  
 Mercuric sulfate  
 Mercuriol  
 Mercurous bromide  
 Mercurous gluconate  
 Mercurous nitrate  
 Mercurous oxide  
 Mercurous sulfate  
 Mercury  
 Metal carbonyls  
 Metam/Metham/Metham-sodium  
 Methane, trichlorofluoro-/Trichlorofluoromethane  
 Methoxychlor/2,2-Bis(p-methoxyphenyl)-1,1,1-trichloroethane  
 Melphanlan  
 Methyl chloromethyl ether  
 Metolachlor/Metachlor  
 Metsulfuron-methyl/Allyl/2-[3-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)ureidosulphonyl] benzoic acid  
 Mitomycin C  
 Mustard gas  
 Naled/Dimethyl 1,2-dibromo-2,2-dichloroethyl phosphate  
 2-Naphthylamine/alpha-Naphthylamine  
 Nickel acetate  
 Nitrophenol (ortho, para)  
 N-Nitrosopyrrolidine/Pyrrole, tetrahydro-N-nitroso  
 Permethrin/3-Phenoxybenzyl(±)cis,trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate  
 Phenol, 2,3,4,6-tetrachloro-/2,3,4,6-Tetrachlorophenol  
 Phenol, 2,4,5-trichloro-/2,4,5-Trichlorophenol  
 Phenol, 2,4,6-trichloro-/2,4,6-Trichlorophenol  
 Phoxim/O,O-Diethyl Alpha-cyanobenzylideneamino-oxyphosphonothioate  
 Picloram, salts/4-Amino-3,5,6-trichloropicolinic acid, salts  
 Polybrominated biphenyls/PBBs  
 Polychlorinated biphenyls/PCBs  
 Pyrethrins/Pyrethrum  
 Simazine/2-Chloro-4,6-bis-ethylamino-s-triazine  
 Tebuthiuron/N-[5(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl]-N,N'-dimethylurea  
 Temephos/O,O,O,O'-Tetramethyl O,O'-thiodi-p-phenylene diphosphorothioate  
 2,4,5-T/2,4,5-Trichlorophenoxyacetic acid

Tetradiphon/Tetradifon/2,4,5,4',-Tetrachlorodiphenyl sulfone  
 Treosulphan  
 Triclopyr, esters/[(3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid, esters  
 Trichlorphon/Trichlorfon/Dimethyl (2,2,2-trichloro-1-hydroxyethyl) phosphonate  
 Trifluralin/2,6-Dinitro-N,N-dipropyl-4-trifluoromethylaniline  
 Vinyl chloride

1 May 92 SR 25/92 s16.

### Appendix D

#### WASTE DANGEROUS GOODS

Used oil, including crankcase oils, hydraulic oils, gear oil, quench oil, transformer oil, differential oil, cutting oil, lubricating oil, turbine oil and transmission oil.

Filters containing used oils listed above unless drained and crushed to less than 25% of the original physical volume of the filter.

Filters containing waste dangerous goods where the filter media meets any of the criteria set out in Part III of the *Transportation of Dangerous Goods Regulations* (Canada)

Waste antifreeze solutions.

1 May 92 SR 25/92 s16; 27 Jan 95 SR 3/95 s16.