

Part 5 (Dangerous Goods Packaging)

The objective of the proposed amendments to Part 5 (Dangerous Goods Packaging) of the *Transportation of Dangerous Goods Regulations* (TDG Regulations) is to introduce the concept of “packaging” and to provide greater direction as to the selection, use, scope, and application of the various dangerous goods containment standards.

The proposed definition of packaging would be similar to the definition found in the UN Recommendations (19th edition), and would align the TDG Regulations terminology with other international regulations such as the 49 CFR in the United States, which also uses the term “packaging”. “Packaging” would be defined in Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) of the TDG Regulations as *“a means of containment, not including the means of transport, where the receptacle or packaging specification, instruction or any other components or materials are required for the receptacles to safely perform its containment functions;”* and would be used throughout the new Part 5 (Dangerous Goods Packaging) and other Parts of the TDG Regulations, where applicable. “Packaging” would provide a clear distinction between a means of containment that includes *“any part of a means of transport”* and a receptacle that performs a containment function. Another new term “package supplements” is also being proposed and would address other parts, besides a packaging, used to support and secure a packaging on a means of transport (e.g. consolidation bin, overpack). The title of Part 5 (Dangerous Goods Packaging) would also change from “Means of Containment” to “Dangerous Goods Packaging” to reflect this change in terminology.

This amendment would also seek to better guide consignors towards the appropriate standards to use based on the type of packaging activity they plan to undertake. The Sections related to packaging activities would list each of the packagings by name (e.g. ton container, rail tank cars, UN portable tanks, etc.) and point to its associated standard. Consignors will therefore be able to more easily select the standard they need based on either the packaging activity and/or by referring to the selection, and use Sections that are divided by dangerous goods classes. Furthermore, compliance and enforcement for many of the infractions related to Part 5 (Dangerous Goods Packaging) of the TDG Regulations are often cited through Sections of the TDG Act (i.e. 5(d) or 5.1). Inspectors would be able to specifically associate an enforcement or compliance issue directly to these new Sections of the TDG Regulations.

Currently, Part 5 (Dangerous Goods Packaging) of the TDG Regulations has a Section for loading and securing as well as filling limits, while this amendment recommends adding 4 new Sections: compliance marking, design and manufacture, repair, and retesting.

The following consultation document is separated in two parts; (A) Changes by Section that includes current versus proposed text; and (B) the new proposed text for Part 5.

A. Amendments by Section (Current vs Proposed Text)

The following amendment is separated into current versus proposed text. The column with proposed text (on the right) will show:

- 1. the new text for this Section, that will be the same as the one in Part B of this consultation document (the new proposed text for Part 5 (Dangerous Goods Packaging) of the TDG Regulations);
- 2. an explanation as to why the current text has been repealed; or
- 3. where in the TDG Regulations or in a standard this Section has been moved.

Provision	Current Text	Proposed Text
5.1	Selecting and Using Means of Containment	New 5.2 General Provisions
	(1) A person must not handle, offer for transport, transport or import dangerous goods in a means of containment unless the means of containment is required or permitted by this Part to be used for the transportation of the dangerous goods. (2) A person must not handle, offer for transport or transport dangerous goods in a standardized means of containment unless	Previous text repealed and replace with: (1) A person must not import, offer for transport, handle or transport dangerous goods unless the dangerous goods are in packaging that, under normal conditions of transport, will ensure no release of the dangerous goods that could endanger public safety.

Provision	Current Text	Proposed Text
	<p>the standardized means of containment is in standard.</p> <p>(3) A person must not handle, offer for transport or transport dangerous goods in a means of containment that is required or permitted by this Part unless the means of containment is designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.</p>	<p>(2) Packaging must be designed, manufactured, selected, used, repaired, tested, loaded, unloaded and marked in accordance with the applicable standard in this Part.</p>

Provision	Current Text	Proposed Text
5.2	Requirements for a Standardized Means of Containment to Be in Standard	5.2 Requirements for a Standardized Means of Containment to Be in Standard
	<p>A standardized means of containment is in standard with a specific safety standard if it has displayed on it the certification safety marks required by the standard and</p> <p>(a) was in compliance with the requirements of the standard when each certification safety mark was first displayed; and</p> <p>(b) remains in compliance with the requirements of the standard that had to be complied with when each certification safety mark was first displayed.</p>	<p>Repealed – This section would be captured in the new packaging activities Sections.</p>

Provision	Current Text	Proposed Text
5.3	Certification Safety Marks on a Means of Containment	5.3 Compliance Marking
5.3	<p>Any mark required by a safety standard is a certification safety mark and must be visible and legible when it is displayed on a means of containment.</p>	<p>Previous text repealed and replaced with:</p> <p>(1) A compliance mark displayed on packaging used for dangerous goods must meet all the marking requirements within the applicable standard in this Part.</p> <p>(2) A compliance mark must only be applied in accordance with the applicable standards:</p> <p>(a) For Highway Tanks or other similar packaging found in CSA B620, CSA B621 and CSA B622</p> <p>(b) For TC Portable Tanks or other similar packaging found in CSA B620</p> <p>(c) For Rail Tank Cars or other similar packaging found in TP14877</p> <p>(d) For Ton Containers or other similar packaging found in TP14877</p> <p>(e) For cylinders, spheres and tubes or other similar packaging found in CSA B339 and CSA B340</p> <p>(f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other</p>

Provision	Current Text	Proposed Text
		<p>similar packaging found in CSA B341 and CSA B342</p> <p>(g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123</p> <p>(h) For UN Portable Tanks or other similar packaging found in CSA B625</p> <p>(i) For infectious substances (Division 6.2) or other similar packaging found in CGSB 43.125</p> <p>(j) For UN small packaging or other similar packaging found in TP14850</p> <p>(k) For UN drums remanufactured and/or reconditioned or other similar packaging found in CGSB 43.126</p> <p>(l) For UN intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146</p>

Provision	Current Text	Proposed Text
5.4	Loading and Securing	5.7 Loading and Unloading
	<p>A person must load and secure dangerous goods in a means of containment and must load and secure the means of containment on a means of transport in such a way as to prevent, under normal conditions of transport, damage to the means of containment or to the means of transport that could lead to an accidental release of the dangerous goods.</p>	<p>(1) Loading and unloading include the requirements in relation to filling, emptying and securing packaging onto a means of transport. This includes inspecting and verifying the shipment and ensuring the securement of closures.</p> <p>(2) A person must load, unload and secure dangerous goods in a means of containment and must load and secure the means of containment on packaging onto a means of transport in such a way as to prevent, under normal conditions of transport, damage to the means of containment packaging or to the means of transport that could lead to the accidental release of the dangerous goods.</p> <p>(3) Packaging must be loaded and unloaded in accordance with the applicable standards:</p> <p>(a) For Highway Tanks or other similar packaging found in CSA B620, CSA B621 and CSA B622</p> <p>(b) For TC Portable Tanks or other similar packaging found in CSA B620</p> <p>(c) For Rail Tank Cars or other similar packaging found in TP14877</p> <p>(d) For Ton Containers or other similar packaging found in TP14877</p> <p>(e) For cylinders, spheres and tubes or other similar packaging found in CSA B339 and CSA B340</p>

Provision	Current Text	Proposed Text
		<div>(f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341 and CSA B342</div> <div>(g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123</div> <div>(h) For UN Portable Tanks or other similar packaging found in CSA B625</div> <div>(i) For packaging used for explosives found in CGSB 43.151</div> <div>(j) For small packaging or other similar packaging found in TP14850</div> <div>(k) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146</div>

Provision	Current Text	Proposed Text
5.5	Filling limits	5.7.1 Filling Limits
5.5	<div>(1) A person filling a means of containment with dangerous goods must not exceed the maximum quantity limit specified in a safety standard or safety requirement applicable to that means of containment.</div> <div>(2) If the maximum quantity limit for a means of containment is not specified in a safety standard or safety requirement, the person filling the means of containment with dangerous goods</div> <div><div>(a) must not exceed the maximum quantity limit established by the manufacturer for the means of containment; and</div><div>(b) must ensure that the means of containment could not become liquid full at any temperature that is less than or equal to 55°C.</div></div>	<div>(1) A person must fill dangerous goods in a packaging in such a way to prevent, under normal conditions of transport, damage to the packaging or to the means of transport that could lead to the release of the dangerous goods.</div> <div>(2) A person filling a means of containment packaging with dangerous goods must not exceed the maximum quantity limit specified in a safety standard or safety requirement applicable to the packaging that means of containment.</div> <div>(3) If the maximum quantity limit for a means of containment packaging is not specified in a safety standard or safety requirement, the person filling the means of containment packaging with dangerous goods</div> <div><div>(a) must not exceed the maximum quantity limit established by the manufacturer for the packaging means of containment; and</div><div>(b) must ensure that the packaging means of containment could not become liquid full at any temperature that is less than or equal to 55°C.</div></div>

Provision	Current Text	Proposed Text
5.6	UN Standardized Means of Containment	5.9 UN Standardized Packaging
5.6	<p>A means of containment is a UN standardized means of containment if it has displayed on it the applicable UN marks illustrated in Chapter 6.1, Chapter 6.3 and Chapter 6.5 of the UN Recommendations and</p> <p>(1) it is in compliance with</p> <ul style="list-style-type: none"> (i) sections 2, 3, 4 and 7 of CGSB-43.125, (ii) sections 2 to 11 of CGSB-43.146, or (iii) sections 2 and 3 and Part 1 of TP14850; or <p>(2) it was manufactured outside Canada in compliance with Chapter 6.1, 6.3 or 6.5 of the UN Recommendations and with the national regulations of the country of manufacture.</p>	<p>Previous text repealed and replace with:</p> <p>(1) A person must not offer for transport, handle or transport dangerous goods in UN standardized packaging unless the UN standardized packaging is in accordance with this Part.</p> <p>(2) UN standardized packaging must be designed, manufactured, selected, used, repaired, tested, loaded, unloaded and marked in accordance with this Part.</p> <p>(3) UN standardized packaging manufactured in Canada must be registered with Transport Canada and must meet the requirements in the UN Recommendations for the UN standardized packaging including all the applicable requirements of the required standard in this Part.</p> <p>(4) UN standardized packaging registered outside of Canada must meet the requirements in the UN Recommendations for the UN standardized packaging including all the applicable requirements of the country of registration, unless otherwise stated in the applicable standard in this Part.</p>

Provision	Current Text	Proposed Text
5.7	Compatibility Groups	5.7 Compatibility Groups
		Repealed – this section will be split in the mode specific Parts of the TDG Regulations.

Provision	Current Text	Proposed Text
5.8	Means of Containment for Class 1, Explosives	5.10.1 Class 1, Explosives
	A person must not handle, offer for transport or transport dangerous goods included in Class 1, Explosives, unless they are in a means of containment that is selected and used in accordance with CGSB-43.151	A person must not handle , offer for transport, handle or transport dangerous goods by road vehicle, railway vehicle or a ship on a domestic voyage included in Class 1, Explosives, unless they are in a means of containment packaging that is selected and used in accordance with CGSB-43.151.

Provision	Current Text	Proposed Text
5.10	Means of Containment for Class 2, Gases	5.10.2 Class 2, Gases
	<p>(1) A person must not handle, offer for transport or transport dangerous goods included in Class 2, Gases, in a means of containment unless the means of containment is manufactured, selected and used in accordance with</p> <p>(a) for transport by road vehicle,</p>	<p>Previous text repealed and replaced by:</p> <p>(1) A person must not offer for transport, handle or transport dangerous goods included in Class 2, Gases, unless they are in a packaging that is</p>

Provision	Current Text	Proposed Text
	<ul style="list-style-type: none"> (i) CGSB-43.123, if the gas is included in Class 2.1 or 2.2 (ii) CSA B340, except clauses 4.1.1.1, 5.1.3(a)(ii) and 5.1.4(a) (iii) CSA B342 (iv) CSA B622, except clause 4.3, and, despite any indication to the contrary in CSA B620, Annex B of CSA B620, (v) CSA B625, or (vi) TP14877, if the means of containment is a ton container; <p>(b) for transport by railway vehicle,</p> <ul style="list-style-type: none"> (i) CGSB-43.123, if the gas is included in Class 2.1 or 2.2, (ii) TP14877, (iii) CSA B340, except clauses 4.1.1.1, 5.1.3(a)(ii) and 5.1.4(a) (iv) CSA B342, or (v) CSA B625; <p>(c) for transport by aircraft,</p> <ul style="list-style-type: none"> (i) CGSB-43.123, if the gas is included in Class 2.1 or 2.2, (ii) CSA B340, except clauses 4.1.1.1, 5.1.3(a)(ii) and 5.1.4(a), or (iii) CSA B342; and <p>(d) for transport by ship,</p> <ul style="list-style-type: none"> (i) CGSB-43.123, if the gas is included in Class 2.1 or 2.2 (ii) TP14877, (iii) CSA B340, except clauses 4.1.1.1, 5.1.3(a)(ii) and 5.1.4(a), (iv) CSA B342 (v) CSA B622, except clause 4.3, and, despite any indication to the contrary in CSA B620, Annex B of CSA B620, or (vi) CSA B625. <p>(2) In addition to complying with the requirements set out in subparagraphs (1)(a)(ii), (b)(iii), (c)(ii) and (d)(iii), a person who uses a means of containment that is a cylinder or tube to handle, offer for transport or transport dangerous goods included in Class 2, Gases, must use a cylinder or tube that was</p> <ul style="list-style-type: none"> (a) manufactured in accordance with CSA B339; (b) authorized for continued use under sections 7.32 and 8.4.2 of the “Transportation of Dangerous Goods Regulations” in effect on January 1, 2001, and the conditions in those sections are complied with; or (c) manufactured before January 1, 1993 in accordance with a specification for cylinders set out in 49 CFR and has displayed on it requalification marks as required by CSA B339 or 49 CFR, except a cylinder manufactured in accordance with <ul style="list-style-type: none"> (i) 49 CFR specification DOT-3B, DOT-3BN, DOT-3E, DOT-4AA480, DOT-4B, DOT-4B240ET, DOT-4BA, DOT-4BW, 	<p>selected and used in accordance with the following standards:</p> <p>(a) If transported by road vehicle,</p> <ul style="list-style-type: none"> (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3) (ii) For cylinders, spheres and tubes or other similar packaging found in CSA B340 (iii) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342 (iv) For Highway Tanks or other similar packaging found in CSA B622 (except Clause 4.3) (v) For TC Portable Tanks or other similar packaging found in CSA B622 (vi) For UN Portable Tanks or other similar packaging found in CSA B625 (vii) For Ton Containers or other similar packaging found in TP14877 <p>(b) If transported by railway vehicle,</p> <ul style="list-style-type: none"> (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Class 2.3) (ii) For Rail Tank Cars or other similar packaging found in TP14877 (iii) For Ton Containers or other similar packaging found in TP14877 (iv) For cylinders, spheres and tubes or other similar packaging found in CSA B340 (v) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342 (vi) For TC Portable Tanks or other similar packaging found in TP14877 (vii) For UN Portable Tanks or other similar packaging found in CSA B625

Provision	Current Text	Proposed Text
	<p>DOT-4D, DOT-4E, DOT-4L, DOT-8 or DOT-8AL, or</p> <p>(ii) 49 CFR specification DOT-39, if the cylinder has a service pressure less than or equal to 6.2 MPa (900 psig).</p> <p>(3) A person must not handle, offer for transport or transport in Canada a cylinder that contains any dangerous goods listed in Table 7 of CSA B340 that are in pure form or that are part of mixtures included in Class 2.3 if the means of containment is an aluminum alloy cylinder manufactured before August 1990.</p> <p>(4) An independent inspector referred to in CSA B339 who prepares a certificate of compliance and test report that is referred to in clause 4.19 of that standard must give a copy of the report to the manufacturer of the means of containment. The independent inspector and the manufacturer must each keep a copy of the report for 3 years for a means of containment that is a specification TC-39M cylinder and for 15 years for all other means of containment.</p> <p>(5) A person who prepares a report of requalification, repair, reheat treatment or rebuilding referred to in clause 24.7 of CSA B339 must give a copy of the report to the owner of the means of containment. The owner and the person who prepared the report must each keep a copy of the report for 10 years. If, during that 10 years, the owner of the means of containment transfers ownership to another person, the owner must give a copy of the report to that person.</p> <p>(6) In addition to the requirements of subparagraphs (1)(a)(ii) and (d)(ii), a person who uses a standardized means of containment that is required, by CSA B622, to offer for transport dangerous goods included in Class 2, Gases, must use a means of containment</p> <p>(a) manufactured in accordance with CSA B620 if the means of containment is manufactured in Canada on or after August 31, 2008; and</p> <p>(b) tested and inspected in accordance with CSA B620 when the most recent periodic re-test or periodic inspection is performed in Canada on or after August 31, 2008.</p>	<p>(c) If transported by a ship on a domestic voyage</p> <p>(i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3)</p> <p>(ii) For Rail Tank Cars or other similar packaging found in TP14877</p> <p>(iii) For Ton Containers or other similar packaging found in TP14877</p> <p>(iv) For cylinders, spheres and tubes or other similar packaging found in CSA B340</p> <p>(v) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342</p> <p>(vi) For Highway Tanks - CSA B622 (except Clause 4.3)</p> <p>(vii) For UN Portable Tanks or other similar packaging found in CSA B625</p> <p>(d) If transported by air</p> <p>(i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Divisions 2.3)</p> <p>(ii) For cylinders, spheres and tubes or other similar packaging found in CSA B340</p> <p>(iii) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342</p>

Provision	Current Text	Proposed Text
5.11	UN1950, AEROSOLS and UN2037, GAS CARTRIDGES	5.11 UN1950, AEROSOLS and UN2037, GAS CARTRIDGES
	Despite section 5.10, a person must not handle, offer for transport or transport dangerous goods that are UN1950, AEROSOLS, or UN2037, GAS CARTRIDGES, unless they are contained in a means of containment that is manufactured, selected and used in accordance with CGSB-43.123.	Repeal – This section will form part of the safety standard CGSB-43.123

Provision	Current Text	Proposed Text
5.12	Small Means of Containment	5.12 Small Means of Containment
	<p>(1) A person must not handle, offer for transport or transport dangerous goods included in Class 3, 4, 5, 6.1, 8 or 9 in a small means of containment unless it is a UN standardized means of containment that is selected and used in accordance with sections 2, 3 and 12 of CGSB-43.146 or a means of containment that is selected and used in accordance with sections 2 and 3 and Part 2 of TP14850.</p> <p>(2) A person must not reuse a steel or plastic drum with a capacity greater than or equal to 150 L to handle, offer for transport or transport dangerous goods that are liquid and are included in Class 3, 4, 5, 6.1, 8 or 9 unless</p> <p>(a) for a steel drum, the requirements for the reconditioning, remanufacturing and repair in Part II of CGSB-43.126 are complied with and the drum reconditioning, remanufacturing and repair facility is registered with Transport Canada in accordance with the requirements of Appendix A of CGSB-43.126; or</p> <p>(b) for a plastic drum, the requirements for the reconditioning, remanufacturing and repair in Part III of CGSB-43.126 are complied with and the drum reconditioning, remanufacturing and repair facility is registered with Transport Canada in accordance with the requirements of Appendix A of CGSB-43.126.</p>	Repeal - This section would be captured in the new packaging activities Sections.

Provision	Current Text	Proposed Text
5.14	Large Means of Containment	5.14 Large Means of Containment
	<p>(1) A person must not handle, offer for transport or transport dangerous goods included in Class 3, 4, 5, 6.1, 8 or 9 in a large means of containment unless it is manufactured, selected and used in accordance with</p> <p>(a) for transport by road vehicle,</p> <p>(i) the requirements of sections 2, 3, 12 and 13 of CGSB-43.146, if the means</p>	Repeal - This section would be captured in the new packaging activities Sections.

Provision	Current Text	Proposed Text
	<p>of containment is a UN standardized means of containment,</p> <p>(ii) CSA B621, except clause 8.2(b), and, despite any indication to the contrary in CSA B620, Annex B of CSA B620,</p> <p>(iv) CSA B625, or</p> <p>(v) TP14877, if the means of containment is a ton container;</p> <p>(b) for transport by railway vehicle,</p> <p>(i) the requirements of sections 2, 3, 12 and 13 of CGSB-43.146, if the means of containment is a UN standardized means of containment,</p> <p>(ii) TP14877, or</p> <p>(iii) CSA B625;</p> <p>(c) for transport by aircraft, Part 12, Air, of these Regulations; and</p> <p>(d) for transport by ship,</p> <p>(i) the requirements of sections 2, 3, 12 and 13 of CGSB-43.146, if the means of containment is a UN standardized means of containment,</p> <p>(ii) TP14877,</p> <p>(iii) CSA B621, except clause 8.2(b), and, despite any indication to the contrary in CSA B620, Annex B of CSA B620, or</p> <p>(vi) CSA B625.</p> <p>(1.1) If there is a conflict between sections 5.14.1 to 5.15.6 and subparagraph (1)(b)(ii), sections 5.14.1 to 5.15.6 prevail to the extent of the conflict.</p> <p>(2) In addition to the requirements of subparagraphs (1)(a)(ii) and (d)(iii), a person who uses a standardized means of containment that is required by CSA B621 to offer for transport dangerous goods included in Class 3, 4, 5, 6.1, 8 or 9 must use a means of containment</p> <p>(a) manufactured in accordance with CSA B620 if the means of containment was manufactured in Canada on or after August 31, 2008; and</p> <p>(b) tested and inspected in accordance with CSA B620 when the most recent periodic re-test or periodic inspection is performed in Canada on or after August 31, 2008.</p> <p>(3) Despite clause 2.1.6 of CGSB-43.147, every reference in CGSB-43.147 to the Association of American Railroads publication M-1002-2000, “Specifications for Tank Cars”, must be read as M-1002-2003, “Specifications for Tank Cars”, published by the Association of American Railroads, October 2003.</p> <p>(4) The requirements of clause 30.8.2 of CGSB-43.147 do not apply to</p> <p>(a) UN2448, MOLTEN SULFUR;</p> <p>(b) UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S; or</p> <p>(c) UN3258, ELEVATED TEMPERATURE SOLID, N.O.S.</p>	

Provision	Current Text	Proposed Text
5.14.1 to 5.14.3 and 5.15, 5.15.1 to 5.15.11	Clause 10.5.3 of TP14877 and Tank Car Selection	Repeal – Sections 5.14.2, 5.14.3 and 5.15.11 will be moved to Part 10 (Rail) of the TDG Regulations while the other sections will form part of the safety standard TP14877

Provision	Current Text	Proposed Text
5.16	Means of Containment for Class 6.2, Infectious Substances	5.10.4 Division 6.2, Infectious Substances
	<p>(1) A person must handle, offer for transport or transport dangerous goods included in Category A or Category B of Class 6.2, Infectious Substances, in a means of containment listed for them in column 2, 3 or 4 of the table to this section.</p> <p>(2) Despite subsection (1), a Type 1A means of containment may be used in all cases.</p> <p>Table</p>	<p>(1) A person must offer for transport, handle or transport dangerous goods included in Category A or Category B of Division 6.2, Infectious Substances, unless the dangerous goods are in a packaging that is selected and used in accordance with CGSB 43.125 in a means of containment listed for them in column 2, 3 or 4 of the table to this section.</p> <p>(2) Despite subsection (1), a Type 1A means of containment may be used in all cases.</p> <p>Table</p>

Provision	Current Text	Proposed Text
5.16.1	Additional Requirements for Type 1B Means of Containment	5.16.1 Additional Requirements for Type 1B Means of Containment
	<p>A Type 1B means of containment must be</p> <p>(a) capable of passing</p> <p>(i) for liquid substances, the internal pressure test set out in section 4.4 of CGSB-43.125, and</p> <p>(ii) the drop test set out in section 4.5 of CGSB-43.125 except that the height of the drop test may be 1.2 m;</p> <p>(b) in compliance with clause 4.2.1(iii) of CGSB-43.125 regarding the requirements for multiple primary means of containment in a single secondary means of containment except that only fragile primary means of containment must be separated or wrapped individually; and</p> <p>(c) in compliance with the requirements in section 4.2.2.1 of CGSB-43.125 when it contains a means of cooling the contents.</p>	Repeal - This section will form part of the safety standard CGSB-43.125

Provision	Current Text	Proposed Text
5.16.2	Medical or Clinical Waste	5.16.2 Medical or Clinical Waste
	<p>A person must not handle, offer for transport or transport dangerous goods that are UN3291, (BIO) MEDICAL WASTE, N.O.S. of Class 6.2, Infectious Substances, unless the dangerous goods are in a type 1C means of containment that is in compliance with CGSB-43.125.</p>	Repeal - This section will form part of the safety standard CGSB-43.125

Provision	Current Text	Proposed Text
5.17	Means of Containment for Class 7, Radioactive	5.10.5 Class 7, Radioactive Materials
	A person must not handle, offer for transport or transport dangerous goods included in Class 7, Radioactive Materials, in a means of containment unless the means of containment is in compliance with the “Packaging and Transport of Nuclear Substances Regulations”.	A person must not handle, offer for transport or transport dangerous goods included in Class 7, Radioactive Materials, in a means of containment packaging unless the means of containment packaging is in compliance with the “Packaging and Transport of Nuclear Substances Regulations, 2015”.

Provision	Current Text	Proposed Text
5.18	Consolidation Bins	5.18 Consolidation Bins
	A person must not use a consolidation bin to handle or transport dangerous goods in a road vehicle unless (a) the capacity of the consolidation bin is less than or equal to 1.8 m3 (64 cubic feet); (b) the consolidation bin is reusable and constructed of plastic, wood or metal; and (c) the consolidation bin is blocked or braced within the road vehicle.	Repeal – This section will be moved to section 9.6

Consequential amendment to part 5 (Dangerous goods packaging)

Provision	Proposed Text
9.6	A person must not use a consolidation bin to handle or transport dangerous goods in a road vehicle unless: (a) The capacity of the consolidation bin is less than or equal to 1.8m3 (64 cubic feet); (b) The consolidation bin is reusable and constructed of plastic, wood or metal; and (c) The consolidation bin is blocked or braced within the road vehicle.

B. The New Proposed Text Part 5 (Dangerous Goods Packaging)

5.1 PURPOSE AND SCOPE

This Part prescribes the packaging requirements for dangerous goods.

5.2 GENERAL PROVISIONS

- (1) A person must not handle, offer for transport or transport dangerous goods unless the dangerous goods are in packaging that, under normal conditions of transport, will ensure no release of the dangerous goods that could endanger public safety.
- (2) Packaging must be designed, manufactured, selected, used, repaired, retested, loaded, unloaded and marked in accordance with the applicable standard in this Part.

5.3 COMPLIANCE MARKING

- (1) A compliance mark displayed on packaging used for dangerous goods must meet all the marking requirements within the applicable standard in this Part.
- (2) A compliance mark must only be applied in accordance with the applicable standards:
 - (a) For Highway Tanks or other similar packaging found in CSA B620, CSA B621 and CSA B622
 - (b) For TC Portable Tanks or other similar packaging found in CSA B620
 - (c) For Rail Tank Cars or other similar packaging found in TP14877

- (d) For Ton Containers or other similar packaging found in TP14877
- (e) For cylinders, spheres and tubes or other similar packaging found in CSA B339 and CSA B340
- (f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341 and CSA B342
- (g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123
- (h) For UN Portable Tanks or other similar packaging found in CSA B625
- (i) For infectious substances (Division 6.2) or other similar packaging found in CGSB 43.125
- (j) For UN small packaging or other similar packaging found in TP14850
- (k) For UN drums remanufactured and/or reconditioned or other similar packaging found in CGSB 43.126
- (l) For UN intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146

5.4 DESIGN AND MANUFACTURE

- (1) Design and Manufacture includes all the requirements in relation to the construction and assembly of the packaging. This includes all initial prototype testing and marking. This also includes the requirements for independent inspectors, design engineers, design reviewers and agencies involved in the manufacturing and design approval process.
- (2) Packaging must be designed and manufactured in accordance with the applicable standards:
 - (a) For Highway Tanks or other similar packaging found in CSA B620 (except that Annex B is normative)
 - (b) For TC Portable Tanks or other similar packaging found in CSA B620
 - (i) CSA B626 for TC44 portable tanks
 - (ii) CSA B620 for TC51 portable tanks
 - (c) For Rail Tank Cars or other similar packaging found in TP14877
 - (d) For Ton Containers or other similar packaging found in TP14877
 - (e) For TC specification cylinders, spheres and tubes or other similar packaging found in CSA B339
 - (f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341
 - (g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123
 - (h) For UN Portable Tanks or other similar packaging found in CSA B625
 - (i) For infectious substances (Division 6.2) or other similar packaging found in CGSB 43.125
 - (j) For UN small packaging or other similar packaging found in TP14850
 - (k) For UN intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146

5.5 REPAIR

- (1) Repair includes the requirements in relation to the maintenance, modification, rebuild, remanufacturing and reheat treatment of packaging as well as any marking required with respect to the repair of packaging.
- (2) Packaging must be repaired in accordance with the applicable standards:
 - (a) For Highway Tanks or other similar packaging found in CSA B620 (despite CSA B620, Annex B)
 - (b) For TC Portable Tanks or other similar packaging found in CSA B620 and B622
 - (c) For Rail Tank Cars or other similar packaging found in TP14877

- (d) For Ton Containers or other similar packaging found in TP14877
- (e) For cylinders, spheres and tubes or other similar packaging found in CSA B339
- (f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341 and CSA B342
- (g) For UN Portable Tanks or other similar packaging found in CSA B625
- (h) For drums or other similar packaging found in CGSB 43.126
- (i) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146

5.6 RETESTING

- (1) Retesting includes the requirements in relation to the qualification, requalification, reconditioning, periodic inspection and testing of packaging. This also includes the requirements for inspection agencies used to witness testing and for any marking required with respect to the retesting of packaging.
- (2) Packaging must be tested in accordance with the applicable standards:
 - (a) For Highway Tanks or other similar packaging found in CSA B620 (despite CSA B620, Annex B)
 - (b) For TC Portable Tanks or other similar packaging found in CSA B620 and CSA B626 for TC44 portable tanks
 - (c) For Rail Tank Cars or other similar packaging found in TP14877
 - (d) For Ton Containers or other similar packaging found in TP14877
 - (e) For cylinders, spheres and tubes or other similar packaging found in CSA B339
 - (f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341 and CSA B342
 - (g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123
 - (h) For UN Portable Tanks or other similar packaging found in CSA B625
 - (i) For the reconditioning of drums or other similar packaging found in CGSB 43.126
 - (j) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146

5.7 LOADING AND UNLOADING

- (1) Loading and Unloading includes the requirements in relation to filling, emptying and securing packaging onto a means of transport. This includes inspecting and verifying the shipment and ensuring the securement of closures.
- (2) A person must load, unload and secure dangerous goods packaging onto a means of transport in such a way as to prevent, under normal conditions of transport, damage to the packaging or the means of transport that could lead to a release of the dangerous goods.
- (3) Packaging must be loaded and unloaded in accordance with the applicable standards:
 - (a) For Highway Tanks or other similar packaging found in CSA B620, CSA B621 and CSA B622
 - (b) For TC Portable Tanks or other similar packaging found in CSA B620
 - (c) For Rail Tank Cars or other similar packaging found in TP14877
 - (d) For Ton Containers or other similar packaging found in TP14877
 - (e) For cylinders, spheres and tubes or other similar packaging found in CSA B339 and CSA B340
 - (f) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B341 and CSA B342

- (g) For TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123
- (h) For UN Portable Tanks or other similar packaging found in CSA B625
- (i) For packaging used for explosives found in CGSB 43.151
- (j) For small packaging or other similar packaging found in TP14850
- (k) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146

5.7.1 Filling Limits

- (1) A person must fill dangerous goods in a packaging in such a way as to prevent, under normal conditions of transport, damage to the packaging or to the means of transport that could lead to the release of the dangerous goods.
- (2) A person filling a packaging with dangerous goods must not exceed the maximum quantity specified in a safety standard or safety requirement applicable to the packaging.
- (3) If the maximum quantity limit for packaging is not specified in a safety standard or safety requirement, the person filling the packaging with dangerous goods:
 - (a) must not exceed the maximum quantity limit established by the manufacturer of the packaging; and
 - (b) must ensure that the packaging does not become liquid full at any temperature less than or equal to 55°C.

5.8 PACKAGE SUPPLEMENT

- (1) A package supplement must be secured onto the means of transport along with the dangerous goods packages so that, under normal conditions of transport, they will not shift in a way that might compromise the integrity of the packages.

5.9 UN STANDARDIZED PACKAGING

- (1) A person must not offer for transport, handle or transport dangerous goods in UN standardized packaging unless the UN standardized packaging is in accordance with this Part.
- (2) UN standardized packaging must be designed, manufactured, selected, used, repaired, tested, loaded, unloaded and marked in accordance with this Part.
- (3) UN standardized packaging manufactured in Canada must be registered with Transport Canada and must meet the requirements in the UN Recommendations for the UN standardized packaging including all the applicable requirements of the required standard in this Part.
- (4) UN standardized packaging registered outside of Canada must meet the requirements in the UN Recommendations for the UN standardized packaging including all the applicable requirements of the country of registration, unless otherwise stated in the required standard in this Part.

5.10 SELECTION AND USE

- (1) Selection and Use includes the requirements in relation to selecting an appropriate packaging specification or packing instruction for use with dangerous goods.
- (2) Unpackaged articles may be transported if permitted by the packaging specification or packing instruction within the applicable standard in this Part.

5.10.1 CLASS 1, EXPLOSIVES

- (1) A person must not handle, offer for transport or transport dangerous goods by road vehicle, railway vehicle or a ship on a domestic voyage included in Class 1, Explosives, unless they are in a packaging that is selected and used in accordance with CGSB 43.151.

5.10.2 CLASS 2, GASES

- (1) A person must not handle, offer for transport or transport dangerous goods included in Class 2, Gases, unless they are in a packaging that is selected and used in accordance with the following standards:
 - (a) If transported by road vehicle
 - (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3)
 - (ii) For cylinders, spheres and tubes or other similar packaging found in CSA B340
 - (iii) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342
 - (iv) For Highway Tanks or other similar packaging found in CSA B622 (except Clause 4.3)
 - (v) For TC Portable Tanks or other similar packaging found in CSA B622
 - (vi) For UN Portable Tanks or other similar packaging found in CSA B625
 - (vii) For Ton Containers or other similar packaging found in TP14877
 - (b) If transported by railway vehicle
 - (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3)
 - (ii) For Rail Tank Cars or other similar packaging found in TP14877
 - (iii) For Ton Containers or other similar packaging found in TP14877
 - (iv) For cylinders, spheres and tubes or other similar packaging found in CSA B340
 - (v) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342
 - (vi) For TC Portable Tanks or other similar packaging found in TP14977
 - (vii) For UN Portable Tanks or other similar packaging found in CSA B625
 - (c) If transported by a ship on a domestic voyage
 - (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3)
 - (ii) For Rail Tank Cars or other similar packaging found in TP14877
 - (iii) For Ton Containers or other similar packaging found in TP14877
 - (iv) For cylinders, spheres and tubes or other similar packaging found in CSA B340
 - (v) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342
 - (vi) For Highway Tanks or other similar packaging found in CSA B622 (except Clause 4.3)
 - (vii) For UN Portable Tanks or other similar packaging found in CSA B625
 - (d) If transported by air
 - (i) TC specification aerosol containers and gas cartridges or other similar packaging found in CGSB 43.123 (excluding Division 2.3)
 - (ii) For cylinders, spheres and tubes or other similar packaging found in CSA B340

- (iii) For UN Pressure Receptacles and Multiple-Element Gas Containers (MEGC) or other similar packaging found in CSA B342

5.10.3 CLASS 3, 4, 5, 8, 9 AND DIVISION 6.1

- (1) A person must not reuse a steel or plastic drum with a capacity greater than or equal to 150L to offer for transport, handle or transport dangerous goods that are liquid unless:
 - (a) For a steel drum, the requirements in Part II of CGSB 43.126 are met; or
 - (b) For a plastic drum, the requirements in Part III of CGSB 43.126 are met.
- (2) A person must not offer for transport, handle or transport dangerous goods included in Class 3, 4, 5, 8, 9 or division 6.1, unless they are in a packaging that is selected and used in accordance with the following:
 - (a) If transported by road vehicle
 - (i) For small packaging or other similar packaging found in TP14850
 - (ii) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146
 - (iii) For Highway Tanks or other similar packaging found in CSA B621 (except Clause 8.2(b))
 - (iv) For TC Portable Tanks or other similar packaging found in CSA B621
 - (v) For UN Portable Tanks or other similar packaging found in CSA B625
 - (vi) For Ton Containers or other similar packaging found in TP14877
 - (b) If transported by railway vehicle
 - (i) For small packaging or other similar packaging found in TP14850
 - (ii) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146
 - (iii) For TC Portable Tanks or other similar packaging found in TP14877
 - (iv) For UN Portable Tanks or other similar packaging found in CSA B625
 - (v) For Rail Tank Cars or other similar packaging found in TP14877
 - (vi) For Ton Containers or other similar packaging found in TP14877
 - (c) If transported by a ship on a domestic voyage
 - (i) For small packaging or other similar packaging found in TP14850
 - (ii) For intermediate bulk containers (IBC) or other similar packaging found in CGSB 43.146
 - (iii) For Highway Tanks or other similar packaging found in CSA B621 (except Clause 8.2(b))
 - (iv) For TC Portable Tanks or other similar packaging found in CSA B621
 - (v) For UN Portable Tanks or other similar packaging found in CSA B625
 - (vi) For Rail Tank Cars or other similar packaging found in TP14877
 - (vii) For Ton Containers or other similar packaging found in TP14877
 - (d) if transported by air
 - (i) For small packaging or other similar packaging found in TP14850

5.10.4 DIVISION 6.2, INFECTIOUS SUBSTANCES

A person must not offer for transport, handle or transport dangerous goods included in Category A or Category B of Division 6.2, Infectious Substances, unless the dangerous goods are in a packaging that is selected and used in accordance with CGSB 43.125.

5.10.5 CLASS 7, RADIOACTIVE MATERIALS

A person must not offer for transport, handle or transport dangerous goods included in Class 7, Radioactive Materials, unless the dangerous goods are in a packaging that is selected and used in accordance with the *Packaging and Transport of Nuclear Substances Regulations, 2015*.