

Dangerous Goods Transportation Information Sheet

Generally speaking most loads of dangerous goods being transported must meet five basic requirements:

1. The load must be accompanied by a shipping document, which includes specific information, required by Part 3 of the regulations.
2. The small means of containment must display the safety marks required by Part 4 of the regulations. This would include primary and subsidiary labels, shipping name and UN #.
3. The large means of containment must display the placards and UN# required by the table in Part 4 Section 4.15.
4. The driver must be a trained person or under the direct supervision of a trained person. The trained person must have been issued a training certificate by their employer and must have it in their possession when transporting dangerous goods.
5. The dangerous goods must be transported in a “prescribed” means of containment. The means of containment used must be designed, closed, secured and maintained so that under normal conditions of transport there will be no accidental release of dangerous goods that could endanger public safety.

However the regulation does contain several exemptions, which may exempt the transportation from some or all of the requirements. Some of the more common exemptions are as follows:

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1.15 Exemption for Personal Use

- (1) These Regulations do not apply to dangerous goods in transport on a road vehicle, a railway vehicle or a ship on a domestic voyage, if the dangerous goods
- (a) are transported between
 - (i) a retail outlet and the residence of the purchaser,
 - (ii) a retail outlet and the purchaser's place of use,
 - (iii) the residence of the purchaser and a place of use, or
 - (iv) two residences;
 - (b) are contained in one or more means of containment each of which has a gross mass less than or equal to 30 kg and is designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of dangerous goods that could endanger public safety;
 - (c) are not for resale or for commercial or industrial use; and
 - (d) are in a quantity and concentration available to the general public at retail outlets.

Examples of retail outlets are hardware stores, automotive industry stores, pool supply stores and farm co-ops.

- (2) Subsection (1) does not apply to explosives except for
- (a) explosives with UN numbers UN0044, UN0070, UN0105, UN0131, UN0173, UN0193, UN0336, UN0337, UN0373, UN0404, UN0432 and UN0454; and
 - (b) explosives with UN numbers UN0012, UN0014, UN0055, UN0323, and UN0405 if
 - (i) in the case of cartridges for rifles or pistols, the calibre is less than 50 calibre, or in the case of cartridges for shotguns, the calibre is greater than or equal to 8 gauge, and
 - (ii) the cartridges are packed in metal clips or in partitions inside boxes that fit snugly in an outside packaging.

- (3) Subsection (1) does not apply to
- (a) dangerous goods in a quantity greater than 150 kg gross mass that are in transport on a road vehicle, a railway vehicle or a ship on a domestic voyage; or
 - (b) radioactive materials that are required to be licensed by the Canadian Nuclear Safety Commission.

1.16 500 kg Exemption

- (1) These Regulations do not apply to dangerous goods in a quantity less than or equal to 500 kg gross mass in transport solely on land on a road vehicle or railway vehicle if
- (a) the dangerous goods are contained
 - (i) for dangerous goods other than dangerous goods included in Class 2, Gases, in one or more means of containment each of which has a gross mass less than or equal to 30 kg and 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, or
 - (ii) for dangerous goods included in Class 2, Gases, in a means of containment required by Part 5, Means of Containment;
 - (b) the dangerous goods are accompanied by a shipping document that, despite sections 3.5 and 3.6 of Part 3, Documentation, includes the following information in the following order:
 - (i) the primary class of the dangerous goods following the word "class" or "classe", and
 - (ii) the total number of means of containment following the words "number of means of containment" or "nombre de contenants";

For example,

Class 3, number of means of containment, 10

Class 8, number of means of containment, 12

Class 3, Class 8, number of means of containment, 22

- (c) each means of containment, as prepared for transport, has displayed on one side, other than the side on which it is intended to rest or to be stacked during transport,
 - (i) the dangerous goods safety marks required by Part 4, Dangerous Goods Safety Marks, or
 - (ii) the shipping name of the dangerous goods and the marks required by one of the following Acts and regulations, as long as these marks are visible during handling and transporting:
 - (A) the “Explosives Act” and its regulations,
 - (B) the “Pest Control Products Act” and its regulations,
 - (C) the “Hazardous Products Act” and its regulations, or
 - (D) the “Packaging and Transporting of Nuclear Substances Regulations”; and
 - (d) the person transporting the dangerous goods is trained in accordance with Part 6, Training.
- (2) Subsection (1) does not apply to dangerous goods that
- (a) are forbidden for transport in Schedule 1 or Schedule 3;
 - (b) require a control or emergency temperature;
 - (c) have a primary class or subsidiary class of Class 1, except for Class 1.4S;
 - (d) are included in Class 2.1 and are in a cylinder that has a water capacity greater than 46 L;
 - (e) are included in Class 2.3;
 - (f) are included in Class 4 and Packing Group I;
 - (g) are included in Class 5.2 unless they are limited quantities in accordance with section 1.17;
 - (h) are liquids included in Class 6.1 and Packing Group I;
 - (i) are included in Class 6.2; or
 - (j) are included in Class 7 and are required to be licensed by the Canadian Nuclear Safety Commission.

1.17 Limited Quantities

Subsection (1) establishes the concept of a limited quantity of dangerous goods. Note that it is established in terms of a consignment, that is, a consignment of dangerous goods is a limited quantity if the conditions in this section are met.

Subsection (2) provides an exemption for a limited quantity.

Subsection (3) provides an exemption for an accumulation of more than one limited quantity. However, there are conditions. For example, the means of containment containing the dangerous goods must be marked. Also, when an accumulation of dangerous goods exceeds 500 kg gross mass and is offered for transport by one consignor to one destination, the dangerous goods must be accompanied by a document.

- (1) A consignment of dangerous goods, other than explosives, is a limited quantity if
 - (a) the consignment is contained in a means of containment that has a gross mass less than or equal to 30 kg and 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; and
 - (b) the dangerous goods
 - (i) if a solid, have a mass that is less than or equal to the number shown for them in column 6 of Schedule 1 when that number is expressed in kilograms,
 - (ii) if a liquid, have a volume that is less than or equal to the number shown for them in column 6 of Schedule 1 when that number is expressed in litres, or
 - (iii) if a gas, including a gas in a liquefied form, are contained in a means of containment that has a water capacity less than or equal to the number shown for them in column 6 of Schedule 1 when that number is expressed in litres.
- (2) These Regulations do not apply to a limited quantity of dangerous goods in transport on a road vehicle, a railway vehicle or a ship on a domestic voyage, if the means of containment is marked on one side, other than the side on which it is intended to rest or to be stacked during transport, with the words "Limited Quantity" or "quantité limitée", the abbreviation "Ltd. Qty." or "quant. Itée" or the words "Consumer Commodity" or "bien de consommation" in a colour that contrasts with the background colour of the means of containment and in a manner that is visible and legible.

- (3) These Regulations do not apply to an accumulation of limited quantities of dangerous goods in transport on a road vehicle, a railway vehicle or a ship on a domestic voyage, if the limited quantities are in one or more means of containment, each of which is marked on one side, other than the side on which it is intended to rest or to be stacked during transport, with the words "Limited Quantity" or "quantité limitée", the abbreviation "Ltd. Qty." or "quant. Itée" or the words "Consumer Commodity" or "bien de consommation" in a colour that contrasts with the background colour of the means of containment and in a manner that is visible and legible.
- (4) When a limited quantity is in a means of containment that is inside another means of containment that has a gross mass less than or equal to 30 kg and the outer means of containment is marked in accordance with subsection (2) or (3), the inside means of containment is considered to be marked in accordance with that subsection.
- (5) When the gross mass of an accumulation of limited quantities offered for transport by one consignor to one destination is greater than 500 kg, the consignor must give to the carrier a shipping document that, despite sections 3.5 and 3.6 of Part 3, Documentation, includes the words "Limited Quantity" or "quantité limitée", the abbreviation "Ltd. Qty." or "quant. Itée" or the words "Consumer Commodity" or "bien de consommation" and a list of the classes of dangerous goods in the accumulation.

This section does not differentiate between limited quantities and consumer commodities for domestic transport by road, rail or ship. However, if a means of containment is marked "Consumer Commodity" and is transported to the United States, the consignor needs to comply with the definition of "Consumer Commodity" in 49 CFR. Consignors need to comply with the requirements for international ship transport in Part 11, Marine, and with the requirements for domestic and international transport by air in Part 12, Air.

- (6) The words "Consumer Commodity" or "Bien de Consommation", in upper or lower cases letters, may be shown on a document and on a means of containment in addition to, or instead of, the words "Limited Quantity" or "quantité limitée" or the abbreviation "Ltd. Qty." or "quant. Itée".

1.21 Agriculture: 1 500 kg Farm Vehicle Exemption

These Regulations do not apply to dangerous goods in a quantity less than or equal to 1 500 kg gross mass in transport on a road vehicle licensed as a farm vehicle if

- (a) the dangerous goods are transported solely on land for a distance less than or equal to 100 km;
- (b) the dangerous goods are to be or have been used for agricultural purposes; and

- (c) the dangerous goods do not include
 - (i) Class 1, Explosives, other than explosives included in Class 1.4S,
 - (ii) Class 2.1, Flammable Gases, in a cylinder that has a water capacity greater than 46 L,
 - (iii) Class 2.3, Toxic Gases,
 - (iv) Class 6.2, Infectious Substances, or
 - (v) Class 7, Radioactive Materials.

1.22 Agriculture: 3 000 kg Retail Exemption

These Regulations do not apply to dangerous goods in a quantity less than or equal to 3 000 kg gross mass in transport on a road vehicle if

- (a) the dangerous goods are transported solely on land between a retail outlet and the residence of the purchaser or the place of use, for a distance less than or equal to 100 km;
- (b) the dangerous goods are to be or have been used for agricultural purposes;
- (c) the dangerous goods are in a means of containment that 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; and
- (d) the dangerous goods do not include
 - (i) Class 1, Explosives, other than explosives included in Class 1.4S,
 - (ii) Class 2.1, Flammable Gases, in a cylinder that has a water capacity greater than 46 L,
 - (iii) Class 2.3, Toxic Gases,
 - (iv) Class 6.2, Infectious Substances, or
 - (v) Class 7, Radioactive Materials.

1.23 Agriculture: Pesticide Exemption

- (1) Part 3, Documentation, the requirements for the display of a UN number in section 4.15 of Part 4, Dangerous Goods Safety Marks, and Part 6, Training, do not apply to a solution of pesticides in transport on a road vehicle if
- (a) the dangerous goods are transported solely on land for a distance less than or equal to 100 km;
 - (b) the dangerous goods are in a large means of containment that
 - (i) has a water capacity less than or equal to 6 000 L, and
 - (ii) is used to prepare the dangerous goods for application or to apply the dangerous goods; and
 - (c) only one large means of containment containing the solution of pesticides is in transport on the road vehicle.
- (2) Despite the exemption for documentation in subsection (1), when an emergency response assistance plan is required under Part 7, Emergency Response Assistance Plan, the dangerous goods must be accompanied by a shipping document.

1.24 Agriculture: Anhydrous Ammonia Exemption

Part 3, Documentation, and Part 7, Emergency Response Assistance Plan, do not apply to UN1005, AMMONIA, ANHYDROUS, if it is

- (a) in transport solely on land by road vehicle; and
- (b) in a large means of containment that has a water capacity less than or equal to 10 000 L and that will be used for the field application of the dangerous goods.

1.33 Class 3, Flammable Liquids: General Exemption

These Regulations do not apply to dangerous goods included in Class 3, Flammable Liquids, in transport on a road vehicle, a railway vehicle or a ship on a domestic voyage, if the dangerous goods

- (a) have no subsidiary class;
- (b) are included in Packing Group III and have a flash point greater than 37.8°C; and

- (c) are contained in a small means of containment that 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.

1.34 Class 3, Flammable Liquids: Flash Point Between 60.5°C and 93°C

Substances that have a flash point greater than 60.5°C but less than or equal to 93°C may be transported on a road vehicle, a railway vehicle or a ship on a domestic voyage as Class 3, Flammable Liquids, and Packing Group III. In this case, the requirements of these Regulations that relate to flammable liquids that have a flash point less than or equal to 60.5°C must be complied with.

1.35 Class 3, Flammable Liquids: UN1202, DIESEL FUEL, or UN1203, GASOLINE Exemption

Part 3, Documentation, the UN Number requirements in section 4.15 of Part 4, Dangerous Goods Safety Marks, and Part 6, Training, do not apply to UN1202, DIESEL FUEL, or UN1203, GASOLINE, if

- (a) the dangerous goods are in one or more means of containment, each of which is visible from outside the vehicle and each of which has displayed on it
 - (i) the label or placards required for the dangerous goods by Part 4, Dangerous Goods Safety Marks, or
 - (ii) if a side or end of the means of containment is not visible from outside the vehicle, the label or placards required for the dangerous goods by Part 4, Dangerous Goods Safety Marks, other than a placard on the side or end that is not visible from outside the vehicle;
- (b) each means of containment is secured to the vehicle so that the required label or at least one of the required placards displayed on it is visible from outside the vehicle during transport; and
- (c) the total water capacity of all the means of containment is less than or equal to 2 000 L.

Special Provision 42

42 Part 3, Documentation, the placarding requirements in Part 4, Dangerous Goods Safety Marks, and Part 6, Training, do not apply to transporting these dangerous goods on a road vehicle solely on land if

(a) the dangerous goods are contained in no more than 5 small means of containment;

(b) the dangerous goods have a gross mass less than or equal to 500 kg;
and

(c) the labels displayed on the means of containment can be seen from outside the road vehicle.

Applies to the following products:

UN1001, UN1002, UN1006, UN1060, UN1072, UN1978