

RDIMS # 10104840 January 2015

Transportation of Dangerous Goods

TDG Bulletin

Classification Scheme





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This bulletin explains the classification requirements. It does not change, create, amend or suggest deviations to the Transportation of Dangerous Goods (TDG) Regulations. For specific details, consult Part 2 of the TDG Regulations.

Classification Scheme

The *Transportation of Dangerous Goods (TDG) Act* divides dangerous goods into nine classes according to the type of danger they present. The nine classes, as well as their divisions, are described in "The Marks of Safety" handout.

Responsibility

Classification

It is the consignor's (shipper) responsibility to classify a substance, product or organism to determine if it is dangerous goods. A consignor must do all the prep work (or hire someone to do it) before the carrier takes possession of the dangerous goods. Preparing the dangerous goods for transport includes:

- Classifying the dangerous goods;
- Completing the documentation;
- > Displaying the dangerous goods safety marks on the means of containment;
- Selecting a means of containment;
- ≻ Etc

Classification is normally done by (or in consultation with):

- A person capable of understanding the nature of the dangerous goods (e.g. a manufacturer);
- A person who formulates, blends or otherwise prepares mixtures or solutions of goods; or
- In the case of infectious substances, a doctor, scientist, veterinarian, epidemiologist, genetic engineer, pathologist, nurse, coroner or laboratory technologist or technician.

Proof of Classification

A proof of classification is a document a consignor must make available for a period of five years starting on the date that appears on the shipping document to the Minister of Transport Canada on reasonable notice given by the Minister. The proof of classification is in the form of:

- A test report;
- A lab report; or
- > A document that explains how the dangerous goods were classified.



The proof of classification must include the following information:

- The date on which the dangerous goods were classified;
- > If applicable, the technical name of the dangerous goods;
- > The classification of the dangerous goods; and
- If applicable, the classification method used under Part 2 of the TDG Regulations or under Chapter 2 of the UN Recommendations.

Classification Description

When classifying dangerous goods, the consignor must identify:

- The shipping name;
- The primary class;
- The UN number;

and, if applicable,

- The compatibility group letter;
- The subsidiary class(es);
- The packing group;
- > The infectious substance category.
- 1. The shipping name is the name of the dangerous good as it appears in column 2 of Schedule 1, Classes 1 to 9, of the *TDG Regulations*.
- 2. The primary class is the class of dangerous goods that takes precedence over any other class. The subsidiary class is the other class that further identifies the hazards of the dangerous goods. More than one subsidiary class is possible.
- 3. The UN number is a four digit number that identifies dangerous goods internationally.
- 4. The compatibility group identifies the types of Class 1 explosives substances and articles that can be transported together without significantly increasing either the probability of an accident or, for a given quantity, the magnitude of the effects of such an accident. It is represented by a letter following the primary class of a Class 1 explosive.
- 5. The packing group indicates the degree of danger of a product or substance. Packing group I indicates great danger, packing group II indicates moderate danger and packing group III indicates minor danger.
- 6. Categories A and B are used to classify infectious substances. They are based on their ability to cause a disease, their ability to spread the disease and the severity of that disease. Substances classified as category A indicate greater danger.



Alternative Methods

Use of Classification

The consignor must use the following classifications:

- For substances included in Class 1, Explosives, the classification determined in accordance with the "Explosives Act";
- For radioactive materials, the classification determined in accordance with the "Packaging and Transport of Nuclear Substances Regulations".

The consignor may use the following classification:

For substances included in class 6.2 infectious substances, the classification determined by the Public Health Agency of Canada or the Canadian Food Inspection Agency.

For transport within Canada by road vehicle, railway vehicle or by ship on a domestic voyage, the consignor may use the classifications in:

- > The International Civil Aviation Organization (ICAO) Technical Instructions;
- > The International Maritime Dangerous Goods (IMDG) Code; or
- > The United Nations (UN) Recommendations.

International Transport

As per subsection 11.1(1) of the *TDG Regulations*, the IMDG Code must be consulted for international transport by ship.

For transport from the United States into Canada by road vehicle or railway vehicle, the shipping name used must be one that is recognized in Schedule 1, Classes 1 to 9, of the *TDG Regulations* or in the UN Recommendations.

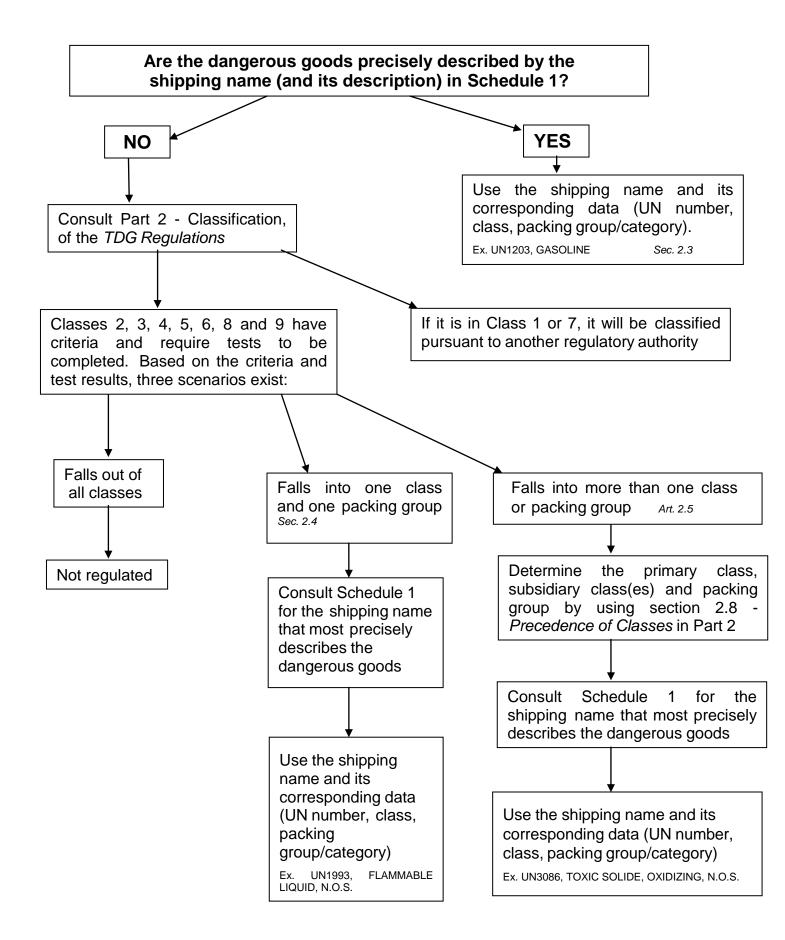
Shipment by Air

The ICAO Technical Instructions, as well as, Part 12, Air, of the *TDG Regulations* must be consulted for all shipments by air.

Classification Flow-Chart

On the following page, there is a pictorial summary to help consignors use the *TDG Regulations* to classify dangerous goods for transport.







Compliance with the *Transportation of Dangerous Goods Act* and *Regulations*

Failure to comply with the *TDG Act* and *TDG Regulations* may lead to fines and/or prison. You can visit the TDG website at: <u>www.tc.gc.ca/tdg</u>. If you have any questions about the *TDG Regulations,* contact a Transport Canada dangerous goods inspector in your region.

Atlantic Region	1-866-814-1477	TDG-TMDAtlantic@tc.gc.ca
Quebec Region	(514) 283-5722	TMD-TDG.Quebec@tc.gc.ca
Ontario Region	(416) 973-1868	TDG-TMDOntario@tc.gc.ca
Prairie & Northern Region	1-888-463-0521	TDG-TMDPNR@tc.gc.ca
Pacific Region	(604) 666-2955	TDGPacific-TMDPacifique@tc.gc.ca

