

SCHEDULE 1

Regulation 2

**Special Requirements in Relation to the Tanks of Tank Containers
and Tank Wagons Constructed before 1st January 1999**

Testing, examination and maintenance of tank containers and tank wagons

1.—(1) A train operator or operator of any tank container or tank wagon shall not cause or permit to be carried therein any dangerous goods unless—

- (a) for the purpose of ensuring that it is properly maintained, there has been prepared and there is carried into effect (in each case by or on behalf of the operator of the tank container or tank wagon concerned) a suitable written scheme for—
 - (i) the initial and periodic examination, and
 - (ii) the initial and, where appropriate, periodic testing,
of the tank of the tank container or tank wagon concerned by a competent person;
- (b) prior to being used for the first time for the carriage of dangerous goods, a competent person acting on behalf of the operator of the tank container or tank wagon concerned has issued a certificate stating that the tank of the tank container or tank wagon concerned is suitable for the purposes specified therein;
- (c) there is in the possession of the operator of the tank container or tank wagon concerned a current report signed by the competent person who carried out the most recent examination and test in accordance with the scheme required by head (a), stating—
 - (i) the date or dates on which the said examination and test were carried out and the results thereof;
 - (ii) the date before which any further examination and, where appropriate, test must be carried out, the interval to that date being that specified in the written scheme referred to in head (a) or such longer interval as the competent person may specify; and
 - (iii) that the tank of the tank container or tank wagon concerned remains suitable for the purposes specified in the certificate for that tank referred to in head (b) or, if it is no longer suitable for any of those purposes, the purposes for which it is suitable.

(2) Subject to sub-paragraph (3), a train operator or an operator of any tank container or tank wagon shall not cause or permit to be carried therein any dangerous goods if the tank of the tank container or tank wagon concerned or any fittings attached to that tank have been damaged, modified or repaired in such a way as might affect their safety since either the report referred to in sub-paragraph (1)(c) was issued or, where the tank is as specified in sub-paragraph (7), the tank and its fittings were last re-examined under—

- (a) ADR;
- (b) RID; or
- (c) the IMDG Code.

(3) A train operator may carry dangerous goods in a tank container or tank wagon where the tank of the tank container or tank wagon concerned is in a state of disrepair, for the sole purpose of transporting such tank to a place for repair, provided it is safe to do so.

(4) It shall be sufficient compliance with sub-paragraph (1)(c) if—

- (a) the competent person referred to in that sub-paragraph first enters his report in a computer under the control of the operator of the tank container or tank wagon concerned and then duly authenticates it; or

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(b) in the case where the competent person does not enter his report in a computer under the control of the operator of the tank container or tank wagon concerned, the report is transferred to such a computer by or on the instructions of the competent person as soon as is practicable after he first enters it in a computer and duly authenticates it.

- (5) The relevant procedure referred to in sub-paragraph (4) may only be used if the report—
- (a) is capable of being reproduced in written form;
 - (b) is secure from unauthorised interference; and
 - (c) can be authenticated only by the competent person.

(6) Where, since the report referred to in sub-paragraph (1)(c) was issued, the tank of a tank container or tank wagon or any fittings attached to the tank concerned have fallen into a state of disrepair, or have been modified or repaired in such a way as might affect the safety of the said tank, the provisions of sub-paragraph (1) shall apply in respect of any such tank or tank wagon as if it had not previously been used for the carriage of dangerous goods.

(7) Sub-paragraph (1) shall not apply to the tank of a tank container or tank wagon used for the carriage of any dangerous goods where such a tank and its fittings have been examined and tested in accordance with the requirements of—

- (a) ADR;
- (b) RID; or
- (c) the IMDG Code.

(8) In this paragraph “competent person” means a competent individual person, other than an employee, or a competent body of persons corporate or unincorporate, and accordingly any reference in the provisions referred to in this paragraph to a competent person performing a function includes a reference to his performing it through his employees.

Certification of testing, examination and maintenance of tank containers and tank wagons

2. An operator of any tank container or tank wagon shall not cause or permit to be carried therein any dangerous goods unless he certifies to the operator of the train on which that tank container is to be carried or of which that tank wagon is to form part that he has complied with paragraph 1 in respect of the tank of the tank container or tank wagon concerned.

Keeping of documents

3.—(1) The operator of any tank container or tank wagon shall ensure that all the documents referred to in paragraph 1 are kept throughout the period that they remain valid at the address within Northern Ireland from which the deployment of the tank container or tank wagon concerned is controlled.

(2) It shall be sufficient compliance with sub-paragraph (1) in circumstances where (by virtue of the fact that the owner does not have a place of business in Northern Ireland) the operator of the tank container or tank wagon is not its owner, if—

- (a) photocopies of the documents concerned are kept at the operator’s place of business; or
- (b) the documents concerned are readily available from the owner of the tank container or tank wagon.

SCHEDULE 2

Regulation 5

Requirements for the Carriage in Bulk of Certain Dangerous Goods in Wagons and Large Containers

Flammable solids (classification code 4.1)

1.—(1) Carriage in bulk of the goods UN 1334 NAPHTHALENE, CRUDE OR NAPHTHALENE REFINED shall be in—

- (a) steel wagons with a moveable roof; or
- (b) open, steel, large containers or wagons covered with non-flammable sheets.

(2) Carriage of the following goods in bulk shall be in—

- (a) sheeted, open large containers;
- (b) moveable-roof wagons; or
- (c) wagons with adequate ventilation—

UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S.

and in the case of UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S. suitable measures shall be taken to ensure that those goods cannot escape.

Substances liable to spontaneous combustion (classification code 4.2)

2. Where the following goods are carried in bulk in—

- (a) sheeted, open large containers;
- (b) moveable-roof wagons; or
- (c) other wagons—

the large containers or wagons concerned shall be metal—

UN 1361 CARBON OR CARBON BLACK

UN 1362 CARBON, ACTIVATED

UN 1363 COPRA

UN 1364 COTTON WASTE, OILY

UN 1365 COTTON, WET

UN 1373 FABRICS, ANIMAL, VEGETABLE OR SYNTHETIC

UN 1376 IRON OXIDE, SPENT OR IRON SPONGE, SPENT

UN 1379 PAPER, UNSATURATED OIL, TREATED

UN 1386 SEEDCAKE

UN 2217 SEEDCAKE

UN 2793 FERROUS METAL BORINGS, SHAVINGS, TURNINGS, OR CUTTINGS.

Substances which, in contact with water, emit flammable gases (classification code 4.3)

3.—(1) Carriage in bulk of any of the following goods shall be in large containers or wagons designed and constructed so that the openings for loading and unloading can be closed hermetically—

UN 1394 ALUMINIUM CARBIDE

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UN 1398 ALUMINIUM SILICON POWDER, UNCOATED
UN 1402 CALCIUM CARBIDE
UN 1405 CALCIUM SILICIDE
UN 1435 ZINC ASHES
UN 1436 ZINC POWDER OR ZINC DUST
UN 2813 WATER-REACTIVE SOLID, N.O.S.
UN 2844 CALCIUM MANGANESE SILICON
UN 2950 MAGNESIUM GRANULES, COATED
UN 2968 MANEB, STABILISED AND MANEB PREPARATION, STABILISED
UN 3170 ALUMINIUM SMELTING BY-PRODUCTS OR ALUMINIUM RE-MELTING BY-PRODUCTS
UN 3208 METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
UN 3209 METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.

(2) Carriage of the goods UN 3170 ALUMINIUM SMELTING BY-PRODUCTS OR ALUMINIUM RE-MELTING BY-PRODUCTS in bulk shall be in wagons with a moveable roof.

Oxidizing substances (classification code 5.1)

4.—(1) Where OXIDIZING SUBSTANCES are being carried in bulk in metal wagons or large containers, measures shall be taken to prevent those substances from coming into contact with any other combustible dangerous goods or any wooden part of the wagon or container concerned.

(2) Where OXIDIZING SUBSTANCES are being carried in bulk in wooden lined containers or wooden wagons their flooring and sides shall be completely covered with a waterproof and incombustible lining, or with a coating of sodium silicate or a similar product.

Toxic substances (classification code 6.1)

5. Wagons or large containers used for the carriage of the goods UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S. in bulk shall be leak-proof or made leak-proof.

Infectious substances (classification code 6.2)

6.—(1) Carriage in bulk of the goods UN 3291 CLINICAL WASTE, UNSPECIFIED, N.O.S. shall be in large containers or wagons designed and constructed so that the openings for loading and unloading can be closed hermetically.

(2) The goods in sub-paragraph (1) shall be loaded in such a way that dangers to man, animals and the environment are avoided.

Corrosive substances (classification code 8)

7. Wagons or large containers used for the carriage of the goods UN 3244 SOLIDS CONTAINING CORROSIVE LIQUIDS, N.O.S. in bulk shall be leak-proof or made leak-proof.

Miscellaneous dangerous substances and articles (classification code 9)

8. Wagons or large containers used for the carriage of the goods UN 2111 POLYMERIC BEADS, EXPANDABLE shall be properly ventilated.

SCHEDULE 3

Regulation 6

Requirements for the Carriage in Small Containers of Certain Dangerous Goods

Gases: Compressed, liquefied or dissolved under pressure (classification code 2)

1. The carriage of packages containing GASES: COMPRESSED, LIQUEFIED OR DISSOLVED UNDER PRESSURE in small containers is permitted, with the exception of the following gases—

ARGON
CARBON DIOXIDE
HELIUM
KRYPTON
NEON
NITROGEN
NITROUS OXIDE N₂O (OXIDIZING)
OXYGEN (OXIDIZING)
XENON
MIXTURES OF ANY OF THE ABOVE
AIR

Flammable liquids (classification code 3)

2. The carriage of packages containing FLAMMABLE LIQUIDS in small containers is permitted.

Flammable solids (classification code 4.1)

3.—(1) The carriage of packages containing FLAMMABLE SOLIDS, other than UN 3221 SELF-REACTIVE LIQUID TYPE B and UN 3222 SELF-REACTIVE SOLID TYPE B, in small containers is permitted, provided the packages are not fragile packages.

(2) The carriage in bulk of any of the following goods in small containers is permitted provided the containers are of the closed type but with complete sides—

UN 1309 ALUMINIUM POWDER, COATED
UN 1312 BORNEOL
UN 1313 CALCIUM RESINATE
UN 1314 CALCIUM RESINATE, FUSED
UN 1318 COBALT RESINATE, PRECIPITATED
UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S.
UN 1328 HEXAMETHYLENETETRAMINE
UN 1330 MANGANESE RESINATE
UN 1332 METALDEHYDE
UN 1338 PHOSPHOROUS, AMORPHOUS
UN 1346 SILICON POWDER, AMORPHOUS
UN 1350 SULPHUR

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UN 1869 MAGNESIUM AND MAGNESIUM ALLOYS
UN 2001 COBALT NAPHTHENATES
UN 2213 PARAFORMALDEHYDE
UN 2538 NITRONAPHTHALENE
UN 2687 DICYCLOHEXYLAMMONIUM NITRITE
UN 2714 ZINC RESINATE
UN 2715 ALUMINIUM RESINATE
UN 2717 CAMPHOR, SYNTHETIC
UN 2858 ZIRCONIUM, DRY
UN 2878 TITANIUM SPONGE, POWDER OR GRANULES
UN 2989 LEAD PHOSPHITE, DIBASIC
UN 3089 METAL POWDER, FLAMMABLE, N.O.S.
UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S.
UN 3181 METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.
UN 3182 METAL HYDRIDES, FLAMMABLE, N.O.S.

Substances liable to spontaneous combustion (classification code 4.2)

4.—(1) The carriage of packages containing SUBSTANCES LIABLE TO SPONTANEOUS COMBUSTION in small containers is permitted.

(2) The carriage in bulk of any of the following goods in small containers is permitted provided the containers are of the closed type with complete walls and are made of metal—

UN 1361 CARBON
UN 1361 CARBON BLACK
UN 1362 CARBON ACTIVATED
UN 1363 COPRA
UN 1364 COTTON WASTE, OILY
UN 1365 COTTON, WET
UN 1373 FIBRES, ANIMAL, VEGETABLE OR SYNTHETIC, N.O.S., impregnated with oil
UN 1373 FABRICS, ANIMAL, VEGETABLE OR SYNTHETIC, N.O.S., impregnated with oil
UN 1376 IRON OXIDE, SPENT
UN 1376 IRON SPONGE, SPENT
UN 1379 PAPER, UNSATURATED OIL TREATED, incompletely dried
UN 1386 SEEDCAKE, with more than 1.5% (mass) oil and not more than 11% (mass) moisture
UN 2217 SEEDCAKE, with not more than 1.5% (mass) oil and not more than 11% (mass) moisture
UN 2793 FERROUS METAL BORINGS, SHAVINGS, TURNINGS OR CUTTINGS

Substances which, in contact with water, emit flammable gases (classification code 4.3)

5.—(1) The carriage of packages containing SUBSTANCES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES in small containers is permitted.

(2) The carriage in bulk of any of the following goods in small containers is permitted provided the containers are so constructed that the openings designed for loading and unloading can be closed hermetically—

- UN 1394 ALUMINIUM CARBIDE
- UN 1398 ALUMINIUM SILICON POWDER, UNCOATED
- UN 1402 CALCIUM CARBIDE
- UN 1405 CALCIUM SILICIDE
- UN 1435 ZINC ASHES
- UN 1436 ZINC POWDER OR ZINC DUST
- UN 2813 WATER-REACTIVE SOLIDS, N.O.S.
- UN 2844 CALCIUM MANGANESE SILICON
- UN 2950 MAGNESIUM GRANULES, COATED
- UN 2968 MANEB, STABILISED AND MANEB PREPARATION, STABILISED
- UN 3170 ALUMINIUM SMELTING BY-PRODUCTS OR ALUMINIUM RE-MELTING BY-PRODUCTS
- UN 3209 METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.

Oxidizing substances (classification code 5.1)

6.—(1) The carriage of packages containing OXIDIZING SUBSTANCES, (other than HYDROGEN PEROXIDE, SOLUTION OF HYDROGEN PEROXIDE OR TETRANITROMETHANE), in small containers is permitted, provided the packages are not fragile packages.

(2) The carriage in bulk of any of the following goods in small containers is permitted provided the containers are of the closed type with complete walls and are made of metal—

- UN 1438 ALUMINIUM NITRATE
- UN 1442 AMMONIUM PERCHLORATE
- UN 1444 AMMONIUM PERSULPHATE
- UN 1450 BROMATES, INORGANIC, N.O.S.
- UN 1451 CAESIUM NITRATE
- UN 1452 CALCIUM CHLORATE
- UN 1454 CALCIUM NITRATE
- UN 1455 CALCIUM PERCHLORATE
- UN 1458 CHLORATE AND BORATE MIXTURE
- UN 1459 CHLORATE AND MAGNESIUM CHLORIDE MIXTURE
- UN 1461 CHLORATES, INORGANIC, N.O.S.
- UN 1465 DIDYMIUM NITRATE
- UN 1466 FERRIC NITRATE
- UN 1467 GUANIDINE NITRATE
- UN 1473 MAGNESIUM BROMATE
- UN 1474 MAGNESIUM NITRATE
- UN 1475 MAGNESIUM PERCHLORATE
- UN 1477 NITRATES, INORGANIC, N.O.S.

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UN 1481 PERCHLORATES, INORGANIC, N.O.S.
UN 1484 POTASSIUM BROMATE
UN 1485 POTASSIUM CHLORATE
UN 1486 POTASSIUM NITRATE
UN 1489 POTASSIUM PERCHLORATE
UN 1492 POTASSIUM PERSULPHATE
UN 1494 SODIUM BROMATE
UN 1502 SODIUM PERCHLORATE
UN 1505 SODIUM PERSULPHATE
UN 1506 STRONTIUM CHLORATE
UN 1507 STRONTIUM NITRATE
UN 1508 STRONTIUM PERCHLORATE
UN 1513 ZINC CHLORATE
UN 2067 AMMONIUM NITRATE FERTILISERS, TYPE A1
UN 2068 AMMONIUM NITRATE FERTILISERS, TYPE A2
UN 2069 AMMONIUM NITRATE FERTILISERS, TYPE A3
UN 2070 AMMONIUM NITRATE FERTILISERS, TYPE A4
UN 2427 POTASSIUM CHLORATE, AQUEOUS SOLUTION
UN 2469 ZINC BROMATE
UN 2720 CHROMIUM NITRATE
UN 2721 COPPER CHLORATE
UN 2722 LITHIUM NITRATE
UN 2723 MAGNESIUM CHLORATE
UN 2724 MANGANESE NITRATE
UN 2725 NICKEL NITRATE
UN 2728 ZIRCONIUM NITRATE
UN 3215 PERSULPHATES, INORGANIC, N.O.S.

Organic Peroxides (classification code 5.1)

7. The carriage of packages containing ORGANIC PEROXIDES, (other than UN 3101 ORGANIC PEROXIDE TYPE B, LIQUID and UN 3102 ORGANIC PEROXIDE TYPE B, LIQUID), in small containers is permitted, provided the packages are not fragile packages.

Toxic substances (classification code 6.1)

8.—(1) The carriage of packages containing TOXIC SUBSTANCES in small containers is permitted.

(2) The carriage in bulk of any of the following goods in small containers is permitted provided the containers are of the closed type with complete walls and shall be leak-proof or made leak-proof—

UN 1564 BARIUM COMPOUND, N.O.S.
UN 1884 BARIUM OXIDE
UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S.

(3) Small containers which have contained TOXIC SUBSTANCES in bulk shall be checked after unloading for any residue of the load, and, if there has been a leak, shall not be re-used until thoroughly cleaned and, if necessary, decontaminated.

Infectious substances (classification code 6.2)

9.—(1) The carriage of packages containing INFECTIOUS SUBSTANCES in small containers is permitted.

(2) In the event of a spillage from a package containing INFECTIOUS SUBSTANCES which is being carried in a small container—

- (a) the small container shall not be re-used until it has been thoroughly cleaned and, if necessary, disinfected;
- (b) any wooden parts of the small container which have come into contact with such substances shall be removed and burnt.

Corrosive substances (classification code 8)

10.—(1) The carriage of packages containing CORROSIVE SUBSTANCES in small containers is permitted provided such containers are of the closed type, with complete walls and a suitable lining.

(2) The carriage of any of the following goods in bulk in small containers is permitted provided the containers are of the closed type with complete sides and are leak-proof or made leak-proof—

UN 2506 AMMONIUM HYDROGEN SULPHATE

UN 2509 POTASSIUM HYDROGEN SULPHATE

UN 3244 SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.

Miscellaneous dangerous substances and articles (classification code 9)

11.—(1) The carriage of packages containing MISCELLANEOUS DANGEROUS SUBSTANCES OR ARTICLES in small containers is permitted.

(2) Small containers containing UN 2211 POLYMERIC BEADS, EXPANDABLE shall bear the following marking—

“Keep away from sources of ignition” in English.

SCHEDULE 4

Regulation 9

Fees for Approvals and Surveillance Inspections

1. On the making of an application under regulation 9 to the competent authority for the approval of a person as an approved person there shall be payable by the applicant in connection with the performance by or on behalf of the competent authority of its functions in relation to that application, a fee or fees to be determined in accordance with paragraphs 2 to 5.

2. On receipt of the application referred to in paragraph 1 the competent authority shall prepare and send to the applicant an estimate of the cost to the competent authority of the work necessary for the determination of the application, and subject to paragraph 4, the amount so estimated shall be the amount of the initial fee payable and shall be paid forthwith to the competent authority.

3. On determination of the application referred to in paragraph 1 the competent authority shall prepare and send to the applicant a detailed statement of the work carried out for the determination

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of the application and of the cost reasonably incurred by it in carrying out that work or in having it carried out on its behalf.

4. If the cost so stated in accordance with paragraph 3 differs from the amount estimated in accordance with paragraph 2—

- (a) where it is greater, the amount of the difference shall be the amount of the final fee payable and shall be paid forthwith; and
- (b) where it is less, the initial fee shall be redetermined accordingly and the amount of the difference shall be paid forthwith to the applicant by the competent authority.

5. In estimating or stating the cost of carrying out any work the competent authority may determine the cost of employing an officer for any period on work appropriate to his grade by reference to the average cost to it of employing officers of his grade for that period.

6. Following a surveillance inspection of an approved person in accordance with regulation 9(13), the competent authority shall prepare and send to that person a statement of the cost of the performance by or on behalf of the competent authority of its functions in relation to that inspection, and the amount so stated shall be the fee payable for that inspection and shall be paid forthwith.

SCHEDULE 5

Regulation 14

Information to be Displayed on Containers, Tank Containers, Tank Wagons and Wagons

Information

1.—(1) The information specified in sub-paragraph (2) shall be displayed on—

- (a) containers, tank containers, tank wagons and wagons which are being used for the carriage of dangerous goods; and
- (b) empty, uncleaned containers, tank containers, tank wagons and wagons which contain the residues of dangerous goods,

in accordance with this Schedule.

(2) The information referred to in sub-paragraph (1) is as follows—

- (a) the UN number for the goods specified in the Approved Carriage List;
- (b) the emergency action code, if any, ascertained in accordance with the Approved Carriage List;
- (c) the danger sign for the goods ascertained in accordance with regulation 5 of the CDGCPL Regulations;
- (d) the subsidiary hazard sign for the goods, if any, ascertained in accordance with regulation 5 of the CDGCPL Regulations; and
- (e) a telephone number where specialist advice concerning the goods can be obtained in English at any time during carriage.

(3) The information specified in sub-paragraph (2) shall be displayed as follows—

- (a) the UN number and, subject to head (b), the emergency action code shall consist of black digits or letters of 100 millimetres height and 15 millimetres stroke thickness;
- (b) where the emergency action code in column 5 of the Approved Carriage List indicates a white letter on a black background, that letter shall be displayed as an orange letter on a black rectangle having a height and width at least 10 millimetres greater than the height and width of the letter;

- (c) subject to paragraph 7, the danger sign and the subsidiary hazard sign, if any, shall have sides which measure not less than 250 millimetres;
- (d) the telephone number shall consist of black digits of 30 millimetres height and shall be displayed on an orange-coloured background.

Panels

2. The orange-coloured panels and hazard warning panels referred to in this Schedule shall be—
- (a) subject to paragraph 8, in the form of a plate;
 - (b) rigid or fixed to be rigid and securely attached in a substantially vertical plane; and
 - (c) clearly visible.

Tank containers and tank wagons carrying dangerous goods

3.—(1) Subject to sub-paragraphs (2) and (3) and to paragraph 7, tank containers and tank wagons used for the carriage of dangerous goods shall display—

- (a) an orange-coloured panel, conforming to figure 1, on each side of the tank of the tank container, or the frame of the container on which the tank sits, or on each side of the tank wagon, as the case may be, bearing the UN number and the emergency action code;
- (b) the danger sign and subsidiary hazard sign, if any, adjacent to each orange-coloured panel;
- (c) the telephone number, in the immediate vicinity of each orange-coloured panel.

(2) Where a number of different dangerous goods, other than those goods specified in sub-paragraph (3), are carried in separate compartments of the same tank container or tank wagon, an orange-coloured panel, conforming to figure 1, (bearing the UN number and the emergency action code), the danger sign, the subsidiary hazard sign, if any, and the telephone number shall be affixed on each side of each compartment of the tank container or tank wagon, parallel to the longitudinal axis of the tank container or tank wagon, so as to be clearly visible.

(3) Where two or more of these goods are being carried in a multi-compartment tank container or tank wagon—

UN 1202 DIESEL FUEL or GAS OIL or HEATING OIL, LIGHT

UN 1203 PETROL or MOTOR SPIRIT or GASOLINE

UN 1223 KEROSENE

- (a) paragraph 3(1)(a) shall apply as though the tank container or tank wagon were carrying only one of the dangerous goods listed in the Approved Carriage List; and
- (b) any reference in paragraph 3(1)(a) to—
 - (i) the UN number shall be taken as a reference to the UN number of the most hazardous of the goods being carried, and
 - (ii) the emergency action code shall be taken as a reference to the emergency action code of the most hazardous of the goods present.

Containers and wagons carrying dangerous goods in bulk

4. Subject to paragraph 7, containers and wagons used for the carriage of dangerous goods in bulk shall display—

- (a) an orange-coloured panel, conforming to figure 1, on each side of the container or wagon concerned, bearing the emergency action code and the UN number; and

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- (b) the danger sign and the subsidiary hazard sign, if any, adjacent to each orange-coloured panel.

Containers and wagons carrying dangerous goods in packages

5. Where dangerous goods are being carried in packages in a container or wagon and those dangerous goods are such that a danger sign or a subsidiary hazard sign is required by the CDGCPL Regulations to be displayed on packages containing those goods, the same signs shall also be affixed to or displayed on the outside of the container or wagon concerned as follows—

- (a) the danger sign on each side of the container or wagon; and
- (b) the subsidiary hazard sign, if any, adjacent to and on the same horizontal plane as each danger sign.

Piggyback transport

6. Subject to paragraph 9, where dangerous goods are being carried by piggyback transport the wagon shall display—

- (a) the danger sign on each side; and
- (b) the subsidiary hazard sign, if any, adjacent to and on the same horizontal plane as the danger sign.

Exceptions

7.—(1) Notwithstanding paragraphs 3(1) and (2) and 4—

- (a) the information required to be displayed on an orange-coloured panel;
- (b) the danger sign; and
- (c) the telephone number,

may be displayed on a hazard warning panel, which panel shall conform to figure 2 and be orange-coloured, except that part of it which incorporates the danger sign, which part shall be coloured white.

(2) Notwithstanding paragraph 1(3)(c), where a hazard warning panel is displayed—

- (a) the danger sign incorporated within the panel shall have—
 - (i) sides which measure not less than 200 mm, and
 - (ii) a line of the same colour as the symbol not more than 12.5 mm inside the edge and running parallel to it; and
- (b) the subsidiary hazard sign, if any, shall be the same size as the danger sign and shall be displayed adjacent to it and in the same horizontal plane.

(3) Wherever an orange-coloured panel is required to be displayed at the sides of the container, tank container, tank wagon or wagon the hazard warning panel may be displayed instead at the sides of the container, tank container, tank wagon or wagon concerned.

8. Where dangerous goods are being carried in a tank container or tank wagon or in bulk in a container or wagon, the orange-coloured panels may be replaced by—

- (a) self-adhesive sheets;
- (b) paint; or
- (c) any other equivalent process,

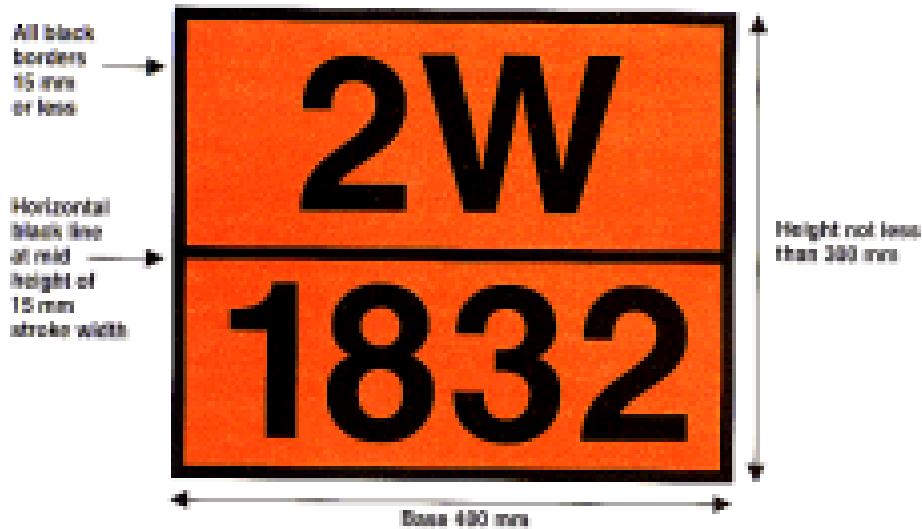
of the same dimensions as the orange-coloured panels, provided the material used for this purpose is weather-resistant and ensures durable marking.

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9. Paragraph 6 shall not apply where the road vehicle being carried displays information concerning the goods being carried in accordance with regulation 18 of the Carriage of Dangerous Goods by Road Regulations (Northern Ireland) 1997(1) and that information is clearly visible.

Figure 1

Orange-coloured panel displaying the emergency action code and the UN number



The emergency action code shall be inscribed in the upper half and the UN number shall be inscribed in the lower half.

Figure 2

Hazard warning panel



The emergency action code shall be inscribed in the upper half and the UN number in the lower half of the orange-coloured panel and the telephone number beneath the UN number.

(1) S.R. 1997 No. 248

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SCHEDULE 6

Regulation 17

Prohibitions on Mixed Loading of Certain Dangerous Goods

1. A package bearing a danger sign with a classification code specified in column 1 shall not be loaded in the same container or wagon together with any package or small container bearing a danger sign with any of the classification codes specified in the corresponding entry in column 2.

2. A small container bearing a danger sign with a classification code specified in column 1 shall not be loaded in the same container or wagon together with any package or small container bearing a danger sign with any of the classification codes specified in the corresponding entry in column 2.

| Column 1 <i>Classification code</i> | Column 2 <i>Classification code</i> |
|--|--|
| 1, 1.4, 1.5, 1.6 or 01 | 2, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 7, 8 or 9 |
| 2 | 1, 1.4, 1.5, 1.6 or 01 |
| 3 | 1, 1.4, 1.5, 1.6 or 01 |
| 4.1 | 1, 1.4, 1.5, 1.6 or 01 |
| 4.2 | 1, 1.4, 1.5, 1.6 or 01 |
| 4.3 | 1, 1.4, 1.5, 1.6 or 01 |
| 5.1 | 1, 1.4, 1.5, 1.6 or 01 |
| 5.2 | 1, 1.4, 1.5, 1.6 or 01 |
| 6.1 | 1, 1.4, 1.5, 1.6 or 01 |
| 6.2 | 1, 1.4, 1.5, 1.6 or 01 |
| 8 | 1, 1.4, 1.5, 1.6 or 01 |
| 9 | 1, 1.4, 1.5, 1.6 or 01 |

SCHEDULE 7

Regulation 18

Requirements for the Loading, Stowage, Unloading and Cleaning of Containers and Wagons Carrying Certain Dangerous Goods

Part I

Packages

General requirements

1.—(1) Unless requirements to the contrary appear in this Schedule, packages labelled as containing dangerous goods may be loaded—

- (a) in containers;
- (b) in unsheeted, open wagons;
- (c) in sheeted, open wagons; or

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- (d) in closed wagons.
- (2) Packages labelled as containing dangerous goods whose packagings are made of materials sensitive to moisture shall be loaded in containers, sheeted, open wagons or closed wagons.
- (3) Packages labelled as containing dangerous goods shall be protected against damage that may be caused by other packages.
- (4) Packages labelled as containing dangerous goods shall be loaded into containers or wagons so that they cannot shift dangerously, tip over or fall.
- (5) Packages labelled as containing dangerous goods shall not be thrown or subjected to impact.
- (6) Packages labelled as containing dangerous goods with a classification code of 4.1 (other than SELF-REACTIVE SUBSTANCES), 4.2, 4.3, 6.2 or 9 shall be loaded in containers, sheeted, open wagons or closed wagons.
- (7) Packages labelled as containing SELF-REACTIVE SUBSTANCES or dangerous goods with a classification code 5.2 shall be loaded in large containers or closed wagons with adequate ventilation.

Gases: compressed, liquefied or dissolved under pressure (classification code 2)

2.—(1) Receptacles containing GASES: COMPRESSED, LIQUEFIED OR DISSOLVED UNDER PRESSURE shall be stowed in large containers or wagons in compliance with the following requirements—

- (a) cylinders with a capacity not exceeding 150 litres shall be laid parallel to or at right angles to the longitudinal axis of the large container or wagon, except that those situated near the end walls shall be laid at right angles to the said axis;
- (b) short cylinders of diameter of 30 centimetres or over may be stowed longitudinally with their valve protective devices directed towards the middle of the large container or wagon;
- (c) cylinders which are sufficiently stable or which are carried in suitable devices which prevent them from overturning may be placed upright;
- (d) cylinders which are laid flat shall be so wedged, made fast or otherwise suitably and securely fixed that they cannot shift;
- (e) receptacles containing any of the following goods shall always be placed in the position for which they were designed and protected against any possibility of being damaged by other packages—

- ARGON
- CARBON DIOXIDE
- HELIUM
- KRYPTON
- NEON
- NITROGEN
- NITROUS OXIDE N₂O (oxidizing)
- OXYGEN (oxidizing)
- XENON
- Any mixture of the goods above
- AIR

- (f) receptacles designed to be rolled shall be laid with their longitudinal axis parallel to that of the large container or wagon and shall be secured against any lateral movement.

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(2) Where pallets loaded with metal aerosol dispensers (grouped together in units on trays and sealed with a suitable plastic wrapping) are stacked, each tier of pallets shall be evenly distributed over the lower tier, if necessary by the interposition of a material of adequate strength.

Flammable solids (classification code 4.1)

3.—(1) Packages containing any of the following goods shall be loaded in containers or wagons which are closed and adequately ventilated—

- UN 3221 SELF-REACTIVE LIQUID TYPE B
- UN 3222 SELF-REACTIVE SOLID TYPE B
- UN 3223 SELF-REACTIVE LIQUID TYPE C
- UN 3224 SELF-REACTIVE SOLID TYPE C
- UN 3225 SELF-REACTIVE LIQUID TYPE D
- UN 3226 SELF-REACTIVE SOLID TYPE D
- UN 3227 SELF-REACTIVE LIQUID TYPE E
- UN 3228 SELF-REACTIVE SOLID TYPE E
- UN 3229 SELF-REACTIVE LIQUID TYPE F
- UN 3230 SELF-REACTIVE SOLID TYPE F

(2) Packages containing FLAMMABLE SOLIDS shall be loaded in—

- (a) sheeted, open containers;
- (b) sheeted, open wagons;
- (c) closed containers; or
- (d) closed wagons.

(3) Packages labelled as containing FLAMMABLE SOLIDS and displaying the subsidiary hazard sign “liable to explosion” shall be loaded so that a free circulation of air within the loading space provides a uniform temperature for the load.

(4) Where the contents of a container or wagon exceed 5000 kilograms of FLAMMABLE SOLIDS in packages and the packages display the subsidiary hazard sign “liable to explosion”, the load shall be divided into stacks of not more than 5000 kilogrammes separated by air spaces of at least 0.05 metre.

Oxidizing substances (classification code 5.1)

4.—(1) Containers and wagons shall be thoroughly cleaned and in particular be free of any combustible debris before they are loaded with packages containing oxidizing substances.

(2) The use of straw or any other readily combustible material for stowing packages containing oxidizing substances is prohibited.

(3) Where flexible intermediate bulk containers are used for the carriage of any of the following goods—

- UN 1442 AMMONIUM PERCHLORATE
- UN 1450 BROMATES, INORGANIC, N.O.S.
- UN 1452 CALCIUM CHLORATE
- UN 1455 CALCIUM PERCHLORATE
- UN 1458 CHLORATE AND BORATE MIXTURES
- UN 1459 CHLORATE AND MAGNESIUM CHLORIDE MIXTURE

- UN 1461 CHLORATES, INORGANIC, N.O.S.
 - UN 1473 MAGNESIUM BROMATE
 - UN 1475 MAGNESIUM PERCHLORATE
 - UN 1481 PERCHLORATES, INORGANIC, N.O.S.
 - UN 1484 POTASSIUM BROMATE
 - UN 1485 POTASSIUM CHLORATE
 - UN 1489 POTASSIUM PERCHLORATE
 - UN 1494 SODIUM BROMATE
 - UN 1502 SODIUM PERCHLORATE
 - UN 1506 STRONTIUM CHLORATE
 - UN 1508 STRONTIUM PERCHLORATE
 - UN 1513 ZINC CHLORATE
 - UN 2427 POTASSIUM CHLORATE, AQUEOUS SOLUTION
 - UN 2429 CALCIUM CHLORATE, AQUEOUS SOLUTION
 - UN 2721 COPPER CHLORATE
 - UN 2723 MAGNESIUM CHLORATE
 - UN 3210 CHLORATES, INORGANIC, AQUEOUS SOLUTIONS, N.O.S.
 - UN 3211 PERCHLORATES, INORGANIC, AQUEOUS SOLUTIONS, N.O.S.
 - UN 3213 BROMATES, INORGANIC, AQUEOUS SOLUTIONS, N.O.S.
- (a) they shall be carried in—
 - (i) a container,
 - (ii) a closed wagon,
 - (iii) a moveable-roof wagon, or
 - (iv) an open wagon covered with an impermeable and non-combustible sheet; and
 - (b) measures shall be taken to ensure that the goods cannot, in the event of a leak, come into contact with wood or any other combustible material.

Organic peroxides (classification code 5.2)

5.—(1) Containers and wagons shall be thoroughly cleaned before they are loaded with packages containing ORGANIC PEROXIDES.

(2) Packages containing ORGANIC PEROXIDES shall be so loaded that a free circulation of air within the loading space ensures the uniform temperature of the load.

(3) Where the contents of a container or wagon exceed 5000 kilogrammes of organic peroxides in packages, the load shall be divided into stacks of not more than 5000 kilogrammes separated by air spaces of at least 0.05 metre.

Toxic substances (classification code 6.1)

6.—(1) Where a container or wagon has been used for the carriage of TOXIC SUBSTANCES in packages it shall be checked after unloading for any signs of spillage or leakage of those goods.

(2) Where packages containing TOXIC SUBSTANCES have leaked and been spilled in a container or wagon—

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- (a) all other goods and articles carried therein at the time of the leakage or spillage shall be examined for possible contamination; and
- (b) the container or wagon concerned shall not be re-used until after it has been thoroughly cleaned and, if necessary, decontaminated.

Infectious substances (classification code 6.2)

7.—(1) Packages containing INFECTIOUS SUBSTANCES shall be stowed in such a way as to be easily accessible.

(2) Where packages containing INFECTIOUS SUBSTANCES are being carried in a container or wagon they shall be kept apart from foodstuffs, other articles of consumption and animal feeding stuffs.

Corrosive substances (classification code 8)

8.—(1) Containers and wagons shall be thoroughly cleaned and in particular be free of all combustible debris before they are loaded with packages containing any of the following goods—

UN 1796 NITRATING ACID MIXTURE with more than 50% Nitric Acid

UN 1802 PERCHLORIC ACID

UN 1826 NITRATING ACID MIXTURE, SPENT WITH MORE THAN 50% NITRIC ACID

UN 2032 NITRIC ACID, RED FUMING

UN 3084 CORROSIVE SOLID, OXIDIZING, N.O.S.

UN 3093 CORROSIVE LIQUID, OXIDIZING, N.O.S.

(2) The use of combustible materials for stowing packages containing any of the goods listed in sub-paragraph (1) is prohibited.

Miscellaneous dangerous substances and articles (classification code 9)

9.—(1) Where packages containing miscellaneous substances or articles are being carried in a container or wagon they shall be kept apart from foodstuffs, other articles of consumption and animal feedstuffs.

(2) Packages containing the goods UN 3245 GENETICALLY MODIFIED MICRO-ORGANISMS shall be stowed in such a way as to be readily accessible.

- (a) (3) (a) Where a container or wagon has been used for the carriage of MISCELLANEOUS DANGEROUS SUBSTANCES OR ARTICLES in packages as a full wagon load it shall be checked after unloading for any signs of spillage or leakage of those goods; and
- (b) where a spillage or leakage of the kind referred to in head (a) has occurred the container or wagon concerned shall not be re-used until after it has been thoroughly cleaned and, if necessary, decontaminated.

Part II

Empty, Uncleaned Packagings

Flammable solids (classification code 4.1)

10.—(1) Empty, uncleaned packagings (including empty, intermediate bulk containers), which contain the residues of any of the following goods shall not be accepted for carriage unless those residues are so packed that the content of water or other phlegmatizers added to them to render them inert cannot diminish—

- UN 1310 AMMONIUM PICRATE, WETTED, with not less than 10% (mass) water
- UN 1320 DINITROPHENOL, WETTED, with not less than 15% (mass) water
- UN 1321 DINITROPHENOLATES, WETTED, with not less than 15% (mass) water
- UN 1322 DINITRORESORCINOL, WETTED, with not less than 15% (mass) water
- UN 1326 HAFNIUM POWDER, WETTED, with not less than 25% (mass) water
- UN 1336 NITROGUANIDINE (PICRITE), WETTED, with not less than 20% (mass) water
- UN 1337 NITROSTARCH, WETTED, with not less than 20% (mass) water
- UN 1344 TRINITROPHENOL, WETTED, with not less than 30% (mass) water
- UN 1347 SILVER PICRATE, WETTED, with not less than 30% (mass) water
- UN 1348 SODIUM DINITRO-*o*-CRESOLATE, WETTED, with not less than 15% (mass) water
- UN 1349 SODIUM PICRAMATE, WETTED, with not less than 20% (mass) water
- UN 1352 TITANIUM POWDER, WETTED, with not less than 25% (mass) water
- UN 1354 TRINITROBENZENE, WETTED, with not less than 30% (mass) water
- UN 1355 TRINITROBENZOIC ACID, WETTED, with not less than 30% (mass) water
- UN 1356 TRINITROTOLUENE, WETTED, with not less than 30% (mass) water
- UN 1357 UREA NITRATE, WETTED, with not less than 20% (mass) water
- UN 1358 ZIRCONIUM POWDER, WETTED, with not less than 25% (mass) water
- UN 1517 ZIRCONIUM PICRAMATE, WETTED, with not less than 20% (mass) water
- UN 1571 BARIUM AZIDE, WETTED, with not less than 50% (mass) water
- UN 2555 NITROCELLULOSE, with not less than 25% (mass) water
- UN 2556 NITROCELLULOSE, with not less than 25% (mass) alcohol and not more than 12·6% nitrogen by dry mass
- UN 2557 NITROCELLULOSE, with not more than 12·6% nitrogen, by dry mass
- UN 2852 DIPRICYL SULPHIDE, WETTED, with not less than 10% (mass) water
- UN 2907 ISOSORBIDE DINITRATE MIXTURE, with not less than 60% lactose, mannose, starch or calcium hydrogen phosphate or with other phlegmatizers, provided that such phlegmatizers have inerting properties which are at least as effective.

(2) Empty, uncleaned packagings which contain the residues of any of the following goods shall not be accepted for carriage unless steps have been taken to prevent their dangerous decomposition—

- UN 3221 SELF-REACTIVE LIQUID TYPE B
- UN 3222 SELF-REACTIVE SOLID TYPE B
- UN 3223 SELF-REACTIVE LIQUID TYPE C

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UN 3224 SELF-REACTIVE SOLID TYPE C
UN 3225 SELF-REACTIVE LIQUID TYPE D
UN 3226 SELF-REACTIVE SOLID TYPE D
UN 3227 SELF-REACTIVE LIQUID TYPE E
UN 3228 SELF-REACTIVE SOLID TYPE E
UN 3229 SELF-REACTIVE LIQUID TYPE F
UN 3230 SELF-REACTIVE SOLID TYPE F

Toxic substances (classification code 6.1)

11. Empty, uncleaned packagings (comprising bags or flexible intermediate bulk containers), which contain the residues of any TOXIC SUBSTANCES shall be placed in boxes or waterproof bags to prevent any leakage of those residues during carriage.

Miscellaneous dangerous substances and articles (classification code 9)

12. Empty, uncleaned packagings (comprising bags) which contain the residues of any MISCELLANEOUS DANGEROUS SUBSTANCES OR ARTICLES shall be placed in boxes or waterproof bags to prevent any leakage of those residues during carriage.