1. INTRODUCTION

The expert from Germany agrees with the comments on ST/SG/AC.10/C.3/2000/29 submitted by the United Kingdom in its Inf. paper CETDG/21/INF.4.


The Dangerous Goods List for substances being permitted under all modal provisions (RID/ADR, IMDG Code and 49 CFR) with the relevant [BK]-Codes is attached as Annex 2.

From the German point of view, the review of document ST/ST/AC.10/2000/16, United Kingdom leads to amendments in respect to the proposed new chapter 6.8.3. These changes include safety requirements, which should also be taken into account in the Model Regulations. They take into consideration the actual provisions for the transport of solid substances in bulk containments in the seameode (see chapter 25 of the General Introduction to the IMDG-Code, Amdt. 28-96). According to this chapter the following provisions have to be fulfilled:

a.) “Certain solid substances and materials classified as dangerous goods may be transported in bulk packagings (freight containers, road or rail vehicles) and portable tanks where this is indicated in the individual schedules.”

b.) “Vehicles should comply with the requirements of, and be acceptable to, the competent authority responsible for land transport of the materials to be transported in bulk.”

Proposals for amendments are attached as Annex 3.
2. PROPOSALS

a) A proposal taking into account doc. ST/SG/AC.10/C.3/2000/29 and Inf. paper CETDG/21/INF.4 is attached to this document as Annex 1.

The proposed amendments relate to the following chapters and sections of the UN recommendations:

1.2.1 Definitions

3.2 Dangerous Goods List

4.3 Use of bulk containers,
4.3.1 General provisions,
4.3.2 Provisions for bulk goods of Divisions 4.1, 5.1, 6.1 and Class 9
4.3.3 Special provisions for bulk goods of Divisions 4.2, 4.3, 5.1 and Classes 7 and 8

6.8 Requirements for the design, construction, inspection and testing of bulk containers,
6.8.1 Application and general requirements,
6.8.2 Requirements for the design, construction, inspection and testing of bulk containers,
6.8.3 Marking.

b) The Dangerous Goods List for substances being permitted under all modal provisions (RID/ADR, IMDG Code and 49 CFR) with the relevant [BK]-Codes is attached as Annex 2.

c) Amendments to doc. ST/SG/AC.10/2000/16 are attached as Annex 3.

d) The consequential amendments being proposed in Inf. paper CETDG/21/INF.4 are supported and should be taken into account.

* * * * *
**Annex 1**

### 1.2.1 Definitions

*Bulk containers* are containment systems (including any liner or coating) intended for the transport of solid dangerous substances which are in direct contact with the containment system, other than packagings, intermediate bulk containers (IBCs), large packagings and portable tanks.

Containment systems are:

- of a permanent character and accordingly strong enough to be suitable for repeated use;
- specially designed to facilitate the carriage of goods by one or more means of transport without intermediate reloading;
- fitted with devices permitting its ready handling, particularly when being transshipped from one means of transport to another;
- so designed as to be easy to fill and empty; and
- have a capacity of not less than \(X \text{ m}^3\).

Examples of bulk containers are freight containers, bulk bins, swap bodies, trough-shaped containers, roller containers, vehicles.

**Remark:** The capacity \(X \text{ m}^3\) should be considered (see ST/S6/AC.10/2000/1 section 2.5).
4.3 Use of bulk containers

4.3.1 General provisions

4.3.1.1 This section contains general provisions applicable to the transport of solid substances of Divisions 4.1 (with the exception of UN 2956, 3241, 3242, 3251, self-reactive substances and explosive substances in non-explosive state), 4.2, 4.3, 5.1 and 6.1 and Classes 7, 8 and 9 in bulk. In addition to these general requirements bulk containers shall conform to the design, construction, inspection and testing requirements detailed in 6.8. Substances shall be transported in bulk containers conforming to the applicable bulk container instruction in the Dangerous Goods List and described in 6.8 (codes [BK]1 to [BK]3).

**Remark:** It should be considered whether column 8 or 12 is appropriate to take into account the provisions of bulk transport. A new coding system for bulk container [BK] should be found.

4.3.1.2 Bulk containers shall only be used for the transport of dangerous substances when a substance is assigned to a bulk container code in Column [8 or 12] of the Dangerous Goods List in Chapter 3.2.

4.3.1.3 When a substance is not assigned a bulk container type in Column [8 or 12] of the Dangerous Goods List in Chapter 3.2, interim approval for transport may be issued by the competent authority of the country of origin. The approval shall be included in the documentation of the consignment and contain, as a minimum, the information normally provided in the bulk container instruction and the conditions under which the substance shall be transported. Appropriate measures shall be initiated by the competent authority to include the assignment in the Dangerous Goods List.

4.3.1.4 Bulk containers, designed in accordance with 6.8.2.3.2 need, prior to filling, be equipped with the additional operational equipment in accordance with 6.8.2.3.3 to 6.8.2.3.5, as relevant.

4.3.1.5 Bulk containers shall be so closed that none of the contents can escape under normal conditions of transport including the effect of vibration, or by changes of temperature, humidity or pressure.

4.3.1.6 Bulk goods shall be so loaded into bulk containers as not to be liable to change their position in a dangerous manner in normal conditions of transport.

4.3.1.7 Openings or other devices for the venting of ventilated bulk containers shall be controlled as to ensure sufficient ventilation.

4.3.1.8 In the case of hygroscopic substances and substances which may become liquid at temperatures likely to be encountered during transport, appropriate measures shall be taken to ensure that there will be no leakage of liquefied substances from the bulk container.

4.3.1.9 Bulk goods shall not react dangerously with the material of the bulk container, gaskets, equipment including lids and tarpaulins and with protective coatings which are in contact with the contents to form hazardous products or significantly weaken them.

4.3.1.10 Before being filled and offered for transport, each bulk container shall be inspected to ensure that it is free from any residue of a previous load if a different substance and any deficiencies to ensure that it is safe for transport.

4.3.1.11 Transport of bulk containers under pressure is not allowed.
4.3.1.12 During transport, no dangerous residues shall adhere to the outer surfaces of bulk containers.

4.3.1.13 If several closure systems are fitted in series, the system which is located nearest to the substance to be carried shall be closed first before filling.

4.3.1.14 During transport, empty uncleaned bulk containers shall be closed in the same manner as bulk containers which have been filled.

4.3.1.15 If bulk containers are used for the carriage of bulk goods liable to cause a dust explosion, or evolve flammable vapours, measures shall be taken to exclude sources of ignition and prevent dangerous electrostatic discharge during filling or discharge of the substance.

4.3.1.16 Substances which may react dangerously with one another and also substances of different classes and goods not subject to these Regulations, which are liable to react dangerously with one another shall not be loaded together in the same bulk container. Dangerous reactions are:

(a) combustion and/or evolution of considerable heat,
(b) emission of flammable and/or toxic gases,
(c) formation of corrosive liquids, or
(d) formation of unstable substances.

4.3.2 Provisions for bulk goods of Divisions 4.1, 5.1, 6.1 and Class 9

Sheeted bulk containers, (code [BK]1) closed bulk containers including ventilated bulk containers (code [BK]2) and closed bulk containers (hermetically closed) (code [BK]3), may be used.

4.3.3 Special provisions for bulk goods of Divisions 4.2, 4.3, 5.1 and Classes 7 and 8

4.3.3.1 Bulk goods of class 4.2
Closed bulk containers (code [BK]2) and closed bulk containers (hermetically closed) (code [BK]3) may be used only. The total mass carried in a bulk container shall be such that its spontaneous ignition temperature is greater than 55 °C. Bulk transport of substances of PG II should be prohibited since they can self-heat at 50 °C in quantities of 450 litres and below.

4.3.3.2 Bulk goods of class 4.3
Closed bulk containers (code [BK]2) and closed bulk containers (hermetically closed) (code [BK]3) may be used only. These goods should be transported in bulk containers in which the openings used for loading and unloading are capable of being closed watertight.

**Remark:** This new section takes into account sub-section 4.3.2.1 and 4.3.2.1.1 of the restructured IMDG Code.

4.3.3.3 Bulk goods of class 5.1
Bulk containers should be so constructed or adapted that the goods can not come into contact with wood or any other combustible material.

**Remark:** This new section takes into account sub-section 4.3.2.2 and 4.3.2.2.1 of the restructured IMDG Code.

4.3.3.4 Bulk goods of class 7
For the transport of unpackaged radioactive material, see 4.1.9.2.3.
4.3.3.5 Bulk goods of class 8

Closed bulk containers (code [BK]2) and closed bulk containers (hermetically closed) (code [BK]3) may be used only.
These goods should be transported in bulk containers in which the openings used for loading and unloading are capable of being closed watertight.
Bulk containers should be so constructed or adapted that the goods cannot penetrate between wooden floor coverings or come into contact with those parts of the bulk containers that may be affected by the materials or residues thereof.

Remark: This new section takes into account sub-section 4.3.2.3, 4.3.2.3.1 and 4.3.2.3.2 of the restructured IMDG Code.

6.8 Requirements for the design, construction, testing and inspection of bulk containers

6.8.1 Application and general requirements

6.8.1.1 The requirements of this chapter apply to containers for the transport of solid dangerous substances as specified in 4.3.1.1 by all modes of transport.

6.8.1.2 In order to take into account progress in science and technology the use of alternative arrangements which offer at least equivalent safety as provided by the requirements of this chapter may be considered by the competent authority.

6.8.2 Requirements for the design, construction, inspection and testing of freight containers

6.8.2.1 Definitions

For the purposes of this section:

*Closed bulk container* means a totally closed bulk container having a rigid roof, rigid side walls, rigid end walls and a floor. The term includes bulk containers with an opening roof where the roof can be closed during transport;

*Hermetically closed bulk container* means a closed bulk container which is airtight;

*Maximum gross mass* means the mass of the bulk container including its service, structural and the operational equipment and the maximum permissible load;

*Operational equipment* means items such as bulkheads, liners and sealing members provided to facilitate the functioning of the bulk container;

*Service equipment* means filling, and discharge devices, ventilating devices, safety devices, and measuring instruments;

*Sheeted bulk container* means an open top bulk container with rigid side and end walls and a non-rigid covering;

*Structural equipment* means reinforcing, handling, fastening, protective and stabilising members attached to the bulk container;

*Ventilated bulk container* means a closed bulk container equipped with openings to allow for the exchange of vapours and gases with air and which prevent under normal conditions of transport the release of solid contents as well as the penetration of rain and splash water.
6.8.2.2 Code for designating types of bulk container

The following table indicates the codes to be used for designating types of bulk containers:

<table>
<thead>
<tr>
<th>Types of bulk containers</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheeted bulk container</td>
<td>[BK]1</td>
</tr>
<tr>
<td>Closed bulk container including ventilated bulk containers</td>
<td>[BK]2</td>
</tr>
<tr>
<td>Hermetically closed bulk container</td>
<td>[BK]3</td>
</tr>
</tbody>
</table>

6.8.2.3 Design and construction requirements

6.8.2.3.1 Closed bulk containers including their fastenings to the conveyance shall, under the maximum gross mass, comply with the design and test requirements of ISO 1496-4, as relevant with respect to their intended handling and use.

6.8.2.3.2 Freight containers of the Type Code Designations 00-04, 10, 11, 13, 15, 17, 50-53 according to ISO 6346:1984 or G0-G3, V0, V2, V4, U0-U5 according to ISO 6346:1995, including open top containers, designed and tested in accordance with ISO 1496-1 and approved in accordance with the CSC Convention, which do not conform fully to ISO 1496-4, may be used as bulk containers provided that an equivalent level of safety is achieved as outlined in 6.8.2.3.3 to 6.8.2.3.5.

6.8.2.3.3 For its qualification as bulk containers, freight containers shall be equipped with operational equipment which is, including its connection to the freight container, designed and constructed to strengthen the end walls and to improve the longitudinal restraint, as necessary to comply with the test requirements of ISO 1496-4, as relevant.

6.8.2.3.4 The operational equipment of freight containers designed to be emptied by tilting shall, including its connection to the freight container, be capable of withstanding the total filling mass in the tilted orientation.

6.8.2.3.5 Operational equipment designed to provide for the required leaktightness shall be capable of withstanding, without loss of contents, the static, dynamic and thermal loads during normal conditions of handling and transport. For ventilated bulk containers any liner shall not impair the ventilating devices.

6.8.2.3.6 Bulk containers of types [BK]2 and [BK]3 shall be so closed that the penetration of splash and rain water is prevented as to be demonstrated by the weatherproofness test in accordance with ISO 1496-1.

6.8.2.3.7 Hermetically closed bulk containers of type [BK]3 shall be constructed to prevent changes of air in excess of air per hour based on the total volume of the bulk container as to be demonstrated by the airtightness test in accordance with ISO 1496-4.

6.8.2.3.8 Any movable roof or roof section shall be fitted with locking devices with securing devices designed to show the locked state to an observer at ground level.
6.8.2.3.9 Freight containers of the Type Code Designations indicated in the table below, designed, constructed and tested in accordance with one of the referenced standards and codices may comply with the requirements of this chapter, provided that the additional requirements as set out in this chapter are met:

Table: Assignment of Type Code Designations acc. to ISO 6346:1984/1995 and bulk containers types

<table>
<thead>
<tr>
<th>Standard/Codex</th>
<th>Type Code Designation</th>
<th>Open top bulk container Type [BK]1</th>
<th>Closed bulk container Type [BK]2</th>
<th>Hermetically closed bulk container Type [BK]3</th>
</tr>
</thead>
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<tr>
<td>ISO 1496-1&lt;sup&gt;a&lt;/sup&gt;</td>
<td>00-04/G0-G3</td>
<td>x</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>ISO 1496-1&lt;sup&gt;a&lt;/sup&gt;</td>
<td>10, 11, 13, 15, 17/ V0, V2, V4</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>ISO 1496-1&lt;sup&gt;a&lt;/sup&gt;</td>
<td>50-53/U0-U5</td>
<td>x</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>ISO 1496-4&lt;sup&gt;b&lt;/sup&gt;</td>
<td>80-89/B0</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO 1496-4&lt;sup&gt;b&lt;/sup&gt;</td>
<td>80-89/B2</td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

<sup>a</sup>“General cargo containers for general purposes“ according to ISO 1496-1:1987;
<sup>b</sup>“Non-pressurised containers for dry bulk“ according to ISO 1496-4: 1991;

6.8.2.4 Service equipment

6.8.2.4.1 Filling and discharge devices shall be so constructed and arranged as to be protected against the risk of being wrenched off or damaged during transport and handling. The filling and discharge devices shall be capable of being secured against unintended opening. The open and closed position and direction of closure shall be clearly indicated.

6.8.2.4.2 Seals of openings shall be so arranged as to avoid any damage by the operation, filling and emptying of the bulk container.

6.8.2.4.3 Closed bulk containers shall be fitted with a manhole or other inspection openings of a suitable size to allow for internal inspection and adequate access for maintenance and repair.

6.8.2.4.4 Ventilated bulk containers (Type [BK]2) shall be equipped with means of air exchange, either by natural convection, e.g. by openings, or active elements, e.g. fans. The ventilation shall be designed to prevent negative pressures in the container at all times. Ventilating elements of bulk containers for the transport of flammable substances or substances emitting flammable gases or vapours shall be designed to prevent ignition.

6.8.2.5 Inspection and testing

6.8.2.5.1 Freight containers used and qualified as bulk containers in accordance with the requirements of this chapter shall be tested and approved in accordance with the CSC Convention.

6.8.2.5.2 The operational equipment shall be designed, manufactured and installed according to a quality assurance programme under the responsibility of the consignor in order to ensure that each manufactured item of equipment and its installation meets the requirements of this chapter.
6.8.2.5.3 The quality assurance programme including the documentation on the qualification of freight containers as bulk containers shall be available to the competent authority.

6.8.2.5.4 Freight containers used as bulk containers shall have been inspected initially and thereafter at intervals not exceeding 2 ½ years acc. to the CSC convention with regard to:

(a) internal and external condition;
(b) proper functioning of service equipment;

unless a continuous examination programme in accordance with 6.8.2.5.1.6 is followed.

6.8.2.5.5 For the purpose of periodic inspection, empty, uncleaned bulk containers may also be carried after the expiry of the date of periodic inspection.

6.8.2.5.6 As an alternative to the periodic inspections a Continuous Examination Programme in compliance with the CSC convention may be applied, which is aimed at detecting any defects which would endanger any person and which shall be performed in connection with major repair, refurbishment or on hire/off hire interchange and in no case less than once every 30 months.

6.8.2.5.7 When the structure of an bulk container is impaired as a result of impact, (e.g. accident) or any other cause, it shall be repaired and then subjected to the full testing and inspection as set out in the CSC convention.

6.8.2.6 Marking

6.8.2.6.1 Freight containers used as bulk containers shall be marked with a Safety Approval Plate in accordance with the CSC convention.

6.8.2.6.2 In addition, every freight container which is used as bulk container according to these Regulations shall be durably and legibly marked with the United Nations symbol

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\[ \text{\textbullet{} \text{\textbullet{}}} \]
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the name of the responsible person for the qualification of the bulk container and the relevant bulk container code according to 6.8.2.2. This marking shall be removed after the bulk container is no longer used as such. * * * * *
Annex 2

<table>
<thead>
<tr>
<th>UN No.</th>
<th>Name and description</th>
<th>Class or division</th>
<th>Subsidiary risk</th>
<th>UN packing group</th>
<th>RID/ADR</th>
<th>IMO</th>
<th>CFR</th>
<th>D</th>
<th>Bulk container types</th>
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<tr>
<td>1334</td>
<td>NAPHTHALENE, CRUDE or NAPHTHALENE, REFINED</td>
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<td>III</td>
<td>x</td>
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<td>x</td>
<td>x</td>
<td>x</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1 [BK]2 [BK]3</td>
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<td>IRON OXIDE, SPENT or IRON SPONGE, SPENT obtained from coal gas purification</td>
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<td>III</td>
<td>x</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]2 [BK]3</td>
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<td>FERROSILICON with 30% or more but less than 90% silicon</td>
<td>4.3 6.1</td>
<td>III</td>
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<td>x</td>
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<td>x</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1 [BK]2 [BK]3</td>
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<td>SODIUM NITRATE</td>
<td>5.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1 [BK]2 [BK]3</td>
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<td>CFR</td>
<td>D</td>
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</tr>
<tr>
<td>1499</td>
<td>SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE</td>
<td>5.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1, [BK]2, [BK]3</td>
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<td>1942</td>
<td>AMMONIUM NITRATE with not more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance</td>
<td>5.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td>[BK]1, [BK]2, [BK]3</td>
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<td>AMMONIUM NITRATE FERTILIZERS: uniform non-segregating mixtures of ammonium nitrate with added matter which is inorganic and chemically inert towards ammonium nitrate, with not less than 90% ammonium nitrate and not more than 0.2% combustible material (including organic material calculated as carbon), or with more than 70% but less than 90% ammonium nitrate and not more than 0.4% total combustible material</td>
<td>5.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1, [BK]2, [BK]3</td>
</tr>
<tr>
<td>2069</td>
<td>AMMONIUM NITRATE FERTILIZERS: uniform non-segregating mixtures of ammonium nitrate/ammonium sulphate, with more than 45% but not more than 70% ammonium nitrate and not more than 0.4% total combustible material</td>
<td>5.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1, [BK]2, [BK]3</td>
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<tr>
<td>2213</td>
<td>PARAFORMALDEHYDE</td>
<td>4.1</td>
<td>III</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>[BK]1, [BK]2, [BK]3</td>
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<tr>
<td>UN No.</td>
<td>Name and description</td>
<td>Class or division</td>
<td>Subsidiary risk</td>
<td>UN RID/ADR packing group</td>
<td>IMO</td>
<td>CFR</td>
<td>D</td>
<td>Bulk container types</td>
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<tr>
<td>2950</td>
<td>MAGNESIUM GRANULES, COATED, particle size not less than 149 microns</td>
<td>4.3</td>
<td>III x x x x</td>
<td>[BK]2 [BK]3</td>
<td></td>
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<tr>
<td>2969</td>
<td>CASTOR BEANS or CASTOR MEAL or CASTOR POMACE or CASTOR FLAKE</td>
<td>9</td>
<td>II x x x x</td>
<td>[BK]1 [BK]2 [BK]3</td>
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<tr>
<td>3175</td>
<td>SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.</td>
<td>4.1</td>
<td>II x x x x</td>
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Annex 3

In document ST/SG/AC10/2000/16 the following amendments are proposed:

a) Delete “the load carrying compartments of” in 6.8.3.1.

b) Add a new sub-paragraph 6.8.3.3 which should read as follows:

“Vehicles should comply with the requirements of, and be acceptable to, the competent authority responsible for land transport of the materials to be transported in bulk.”

c) The proposed sub-paragraphs 6.8.3.3 and 6.8.3.4 should be renumbered to read 6.8.3.4 and 6.8.3.5