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COMMITTEE OF EXPERTS FOR FURTHER WORK  
ON THE TRANSPORT OF DANGEROUS GOODS

Third session  
Geneva  
9 - 13 September 1963

REPORT OF THE COMMITTEE OF EXPERTS FOR FURTHER WORK ON  
THE TRANSPORT OF DANGEROUS GOODS ON ITS THIRD SESSION  
(9 - 13 September 1963)

1. The Committee of Experts for Further Work on the Transport of Dangerous Goods held its third session from 9 to 13 September 1963. The session was attended by experts nominated by the following countries: France, Italy, Japan, Norway, Poland, United Kingdom and the United States of America.<sup>\*/</sup> The following were represented by observers who took part in the work of the Committee in a consultative capacity: Federal Republic of Germany, International Postal Union (UPU), International Labour Organisation (ILO), World Health Organization (WHO), Inter-Governmental Maritime Consultative Organization (IMCO), International Atomic Energy Agency (IAEA), Central Office for International Rail Transport (OCTI), International Air Transport Association (IATA), International Chamber of Commerce (ICC), International Cargo Handling Co-ordination Association (ICHCA), International Chamber of Shipping (ICS), International Organization for Standardization (ISO), International Union for Inland Navigation (UINF) and International Road Transport Union (IRU).<sup>\*/</sup> An official of the Executive Committee of the Organization for Co-operation between Railway Administrations (OSZhd) was also present, at the invitation of the Secretariat.<sup>\*/</sup> Dr. R. Otten-Sooser was present as Consultant.
2. The Committee adopted the provisional agenda submitted by the Secretariat (E/CN.2/CONF.5/R.14).

<sup>\*/</sup> See list of delegates (E/CN.2/CONF.5/5). Chile and China, which had been represented by experts at the Committee's first session, were not represented at this session.

3. On the proposal of the expert from France, Mr. A. W. Clarke (United Kingdom) was unanimously re-elected Chairman.

REPORT OF THE GROUP OF EXPERTS ON EXPLOSIVES

4. The Committee considered the report of the Group of Experts on Explosives on its second session (E/CN.2/CONF.5/6). The Chairman of the Group commented on the conclusions reached by that body.
5. The Committee approved the report and recommended that the views and proposals of the Group be adopted, particularly those contained in paragraphs 5, 6, 9, 13, 14, 19, 23 to 28, 37, 41 to 43 and 45.
6. With regard to paragraph 13 (substances which may become explosive through loss of moisture), the Committee felt that the wording of the first sentence of the footnote at the end of the list of substances and articles of class 4(a) (E/CN.2/CONF.5/1/Add.1, page 17) should be amended to read:  
"There is a risk that the substances, marked with an asterisk, suitably wetted when offered for transport may lose part of, or all, their wetness during transport (e.g. leakage of packaging through one cause or another) and then present an explosive hazard".
7. The expert from France stated that, in his opinion and in conformity with decisions taken by the RID Committee of Experts, the substances in question which presented an explosion as opposed to a fire hazard should be included in class 1. Bearing in mind the reasons of an economic nature and those concerning trade which had been put forward during the discussion, he would have been prepared to agree to such substances being included in class 9; but he felt compelled to make some reservations if they were included in class 4a. The experts from Italy and Norway supported this statement. The expert from the United Kingdom said that these substances would probably be better classified in Class 9 but that he did not want to go back on a compromise already agreed.
8. The question of the inclusion of empty uncleaned receptacles having contained explosives in the list of dangerous goods (paragraph 12) will be dealt with at the next session of the Committee.
9. The Committee followed the suggestion of the Group in respect of the affixing of labels on packages containing substances of Class 1 (paragraph 28); it made the necessary deletion when considering paragraph 48 of the 1956 Recommendations (ST/ECA/43) (see paragraph 22 of annex 2).

10. Following upon some comments from the observer from IATA, speaking of the contents of paragraphs 41 to 43 and of the communication from his Organization (E/CN.2/CONF.5/R.19/Add.1), the Committee asked the Group of Experts on Explosives, once the studies referred to in paragraph 18 of its report had progressed sufficiently, to give priority to the question of reconciling the various national codes in respect of a "safety class" of explosives, i.e. explosives which could be carried with a minimum of precautions.
11. With regard to paragraph 45, the Committee took the Group's proposal into account in the proposed programme of work (see paragraph 53 below).
12. The Secretariat was asked to make all consequent amendments in the list of explosives and in other parts of the text of the revised issue of the 1956 Recommendations (ST/ECA/43) after consultation, where necessary, with the Chairman of the Group of Experts or the Chairman of the Committee.

#### LISTING AND NUMBERING OF SUBSTANCES AND ARTICLES

##### (a) Amendments to the list of dangerous goods

13. The Committee considered documents E/CN.2/CONF.5/R.18 and Addenda 1 to 6. It expressed its gratitude to the Government of Australia, IMCO, the Committee of Experts of the RID, OCTI and IATA for their co-operation and the valuable comments and proposals contained in these documents.
14. The Committee agreed that the list of dangerous goods should be amended as shown at Annex 1.
15. Pressure of time prevented the Committee from studying several questions which will be taken up at its next session; these questions are listed at the end of Annex 1.

##### (b) Method to be applied in publishing the revised list of dangerous goods and in keeping list up to date

16. The Committee studied documents E/CN.2/CONF.5/R.17 and Add.1. In the following text, the paragraph numbers referred to are those of document E/CN.2/CONF.5/R.17, except where otherwise stated.
17. With regard to paragraph 3 (page 1), the Committee noted the views of the United Nations Publications Board, discouraging the issue of the revised list in loose-leaf format, even if it meant re-printing the list every few years.
18. The Committee adopted the Secretariat's proposals contained in paragraphs 4 to 7, and 9 (pages 2 and 3).

19. With regard to paragraphs 10, 11, 12 and 13 (pages 3 and 4), the Committee recommended:

(a) that the decimal system of numbering classes, their divisions and subdivisions be adopted;

(b) that items included in the list be registered consecutively and given a number, as stated in paragraph 41 of the Committee's report on its first session (E/CN.2/CONF.5/1) and in paragraph 37 of the Committee's report on its second session (E/CN.2/CONF.5/3), numbers 0001 to 1000 being used for entries concerning class 1;

(c) that the complete number of each item listed should consist of the number of the class in which it was listed and, separated by a stroke, of the registration number mentioned in (b) above;

(d) that the Secretariat should include in the revised text of the Recommendations:

(i) two general alphabetical bilingual lists covering all items and showing their complete numbers as well as, where applicable, cross-references to one or more other classes;

(ii) similar alphabetical bilingual lists of items in respect of each class, division and subdivision;

(iii) a bilingual register where all items should be classified according to their numbers.

20. Turning to the proposed revised text itself (pages 5 to 12 and annexes), the Committee accepted the Secretariat's proposal with the amendments listed in Annex 2.

21. With regard to paragraph 9 of Annex 2, the expert from France regretted that in respect of classification of gases the Committee had not seen fit to take into consideration the remarks of the OCTI that critical limits should be fixed "to serve as criteria for classification of the substances" (E/CN.2/CONF.5/R.18, at the foot of page 8). The Committee felt that this question was a matter of substance which could not be considered in the course of work primarily devoted to redrafting the 1956 Recommendations and the amendments thereto introduced since 1956 by the Committee and the Group of Experts on Explosives.

22. With regard to paragraph 24 of Annex 2, the experts who wished to make proposals in respect of the inclusion on labels of numbers identifying divisions and subdivisions were invited to submit such proposals in time for study by the Committee's next session.
23. Experts wishing methods other than those referred to in paragraph 33 of Annex 2 to be included in the relevant appendix on methods for determining the flash point of substances of class 3 should send particulars to the Secretariat before 31 December 1963.
24. The Observer from IAEA regretted that in the case of radioactive substances the Committee had not seen fit to do away with the indication of the class at the bottom of labels.
25. The Committee recommended that the revised text of the Recommendations should be reproduced and sent to all governments and international organizations concerned as soon as possible after the Economic and Social Council gave its approval. It further recommended that governments and the international organizations concerned should be invited to make such comments as they might deem necessary on the revised text and, where applicable, inform the Secretariat of the extent to which the Recommendations were, or would be, implemented in national or international regulations as the case might be.
26. Communications on the subject should be sent to the Secretariat, if possible not later than four months after receipt of the revised text of the Recommendations. The Committee proposes to study such communications at its next session.

#### PACKING OF DANGEROUS GOODS

27. The Committee considered documents E/CN.2/CONF.5/R.16 and Add.1 and 2, and the IATA regulations relating to the carriage of restricted articles by air (eighth edition).
28. Mr. Otten-Sooser, Consultant, introduced his note (E/CN.2/CONF.5/R.16) and made some suggestions with regard to the possibility of using the IATA regulations as a basis for the work of the Committee in the field of packing.
29. The Committee agreed that there was no need, in any event at the present stage, to study packing problems in respect of air transport or of the transport of radioactive substances.<sup>\*/</sup> It also agreed that, although the IATA regulations

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<sup>\*/</sup> The question of the packing of explosives was in the hands of the Group of Experts on Explosives.

as they stood might not be applicable to other modes of transport, they could nevertheless form an excellent basis of work for the Committee. The Chairman expressed the Committee's gratitude to IATA for this major contribution to the Committee's studies.

30. The Observer from IATA wished to stress that the IATA "restricted articles" Regulations already had a very wide degree of international acceptance and that the needs of the air transport industry were dealt with by a permanent group. He expressed the hope that the Committee would not find it necessary at some later date to duplicate the work of IATA on this subject.

31. During the course of the discussion, the following points were made:

(a) The performance tests mentioned in the IATA regulations are based on those prescribed by the regulations of the Interstate Commerce Commission of the United States for "rail express" shipments; they do not vary according to the gross weights and dimensions of the packages.

(b) In the United States, the tests made (including "static load" tests) are applicable to all packages irrespective of the mode of transport to be used. Such tests are particularly necessary in respect of sea transport.

(c) Because it is puncturable, plastic material is allowed by IATA for inner packaging only, but it could be used for other modes of transport for outer packaging, if suitable tests are provided for.

(d) The question of ullage and internal pressure in receptacles may have to be considered for other modes of transport in a different way than has been done in IATA regulations.

(e) Packaging not suitable for air transport (e.g. carboys, sacks) may be used for the carriage of dangerous goods by other modes of transport.

(f) There are a number of substances which are not allowed for carriage by air which may be carried by other modes of transport (e.g. explosives).

(g) Some tests which may be unnecessary in respect of air transport (e.g. rough handling and, possibly, vibration tests) may be useful in other cases.

(h) There should be puncturing and wetting tests for fibreboard boxes.

32. The Committee felt that the work should cover the following questions which should be studied in the order given below:

- (a) Drafting of general packaging requirements
  - (b) Selection of outer packagings and of standards for them
  - (c) Determination
    - (i) of tests to be applied to packagings and to packages prepared as for shipment
    - (ii) of the methods to be used for making such tests
  - (d) Selection of inner receptacles
  - (e) Drafting of provisions concerning the packaging of substances or groups of substances (type of outer and inner packaging, maximum net weight per package, cushioning and absorbent material, etc.) These provisions might take a form akin to that of the packaging notes included in the IATA regulations.
33. The study of these questions should be made in respect of each mode of transport other than by air.
34. In view of the needs expressed, in particular by IMCO which awaits the results of this work to progress on its own, the Committee decided that the above studies should be made in two stages. The first stage should cover points (a), (b) and (c) of paragraph 32; the second, which will probably extend over a longer period of time, should cover points (d) and (e).
35. The Committee asked the members and observers who had taken part in the work of the session to study Sections V, VI and VII of the IATA regulations (eighth edition) and to inform the Secretariat in a detailed manner of the amendments (including additions or deletions) to be made to the provisions contained in those sections with a view to making them applicable to each mode of transport (excluding air transport), bearing in mind the comments which are contained in paragraph 31 above.
36. The representative of OCTI agreed to make a comparative study of the RID and IATA regulations. At a later stage the whole question might be submitted to the Committee of Experts of RID.
37. In order to ensure a reasonably good rate of progress in the work, it was agreed that communications in conformity with paragraph <sup>32</sup>35 above should be sent to the Secretariat:
- (a) before 31 March 1964, in respect of points (a), (b) and (c) of paragraph 32;
  - (b) before 30 June 1964, in respect of points (d) and (e).

38. The Secretariat was asked to consolidate the information received and to issue an analytical document showing the desirable amendments to IATA provisions in order to make them applicable to other modes of transport.
39. This document should be submitted to a Group of Rapporteurs<sup>\*/</sup> to be convened by the Secretariat in the latter part of 1964. The Group should make such proposals as may be necessary for study at the Committee's next session.

#### GLS CYLINDERS

40. At its first session, the Committee had expressed the opinion that cylinders for gases under pressure should be studied by a group of specialists (E/CN.2/CONF.5/1, paragraph 46). In the meantime certain studies on the standardization of gas cylinders had progressed within the framework of ISO. Such studies, however, did not cover various aspects which were essential in respect of transport.
41. With a view to avoiding possible duplication of work, the Committee felt that it should not undertake any study in the field of gas cylinders if ISO could take up and expedite the consideration of the question of the standardization of gas cylinders affecting transport.
42. It was agreed that the expert from ICC (M.Médard) would send a note to the Secretariat on the minimum conditions to be fulfilled by gas cylinders for transport purposes. This note would be circulated to the members and observers of the Committee together with a request for comments.
43. If such comments did not contain objections on questions of substance which could not be reconciled, the Secretariat would make the necessary amendments to the original note. It would forward it to ISO and ask that Organization whether it could take up and expedite the study of the questions involved.
44. If, however, the comments received from the members of the Committee were of such a nature that it was impossible to reconcile the various points of view, the Secretariat, after consultation with the Chairman, would convene a small group of rapporteurs with a view to reaching agreement on the text of the note. Once such an agreement had been reached, the Secretariat would forward the note to ISO as stated in the preceding paragraph.

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<sup>\*/</sup> Composed of experts to be nominated by the Government of Italy, the United Kingdom, the United States of America and the International Chamber of Commerce (ICC). If need be, observers from other international organizations may be asked to join the Group. The Committee recommended that the Consultant who had assisted it throughout its work in this field should also be present.



#### LABELLING OF PACKAGES

45. The Committee considered a communication from the Government of Australia (E/CN.2/CONF.5/R.22).
46. With regard to paragraphs (1) and (2), the Committee expressed the hope that further unification in respect of the labelling of corrosive and radioactive substances would be brought about in the future.
47. The question raised in paragraph (3) would be considered at a further session with a view to dividing the present list of substances in accordance with the definitions given in paragraph 40 of the 1956 Recommendations. As to labelling, the present system seemed suitable for transport purposes; users' labels indicating the dangers referred to in the communication from the Minister of Health of Victoria could be affixed for other purposes. This matter did not fall within the competence of the Committee.
48. As to paragraph 4, the Committee thought it was not desirable to alter the revised wording of paragraph 55 of ST/ECA/43.
49. With regard to the communication from IMCO (E/CN.2/CONF.5/R.21, pages 6 and 7, and E/CN.2/CONF.5/R.23, penultimate paragraph), the observer from that Organization agreed that the points raised were covered by the revised text of the Recommendations.

#### WORK ON THE TRANSPORT OF DANGEROUS GOODS BY IMCO AND IAEA

50. The Committee noted the progress made by these Organizations in their work on the transport of dangerous goods and expressed its appreciation of their co-operation.

#### INTERNATIONAL TRANSPORT OF PERISHABLE BIOLOGICAL MATERIAL (Rules prepared by UPU and WHO)

51. The Committee noted with satisfaction from document E/CN.2/CONF.5/R.24 that it had been possible to make the provisions recommended by the Committee at its second session (E/CN.2/CONF.5/3, paragraph 42). It thanked the organizations concerned.

#### PROGRAMME OF WORK AND TIMING OF MEETINGS

52. The Committee fully endorsed the opinion expressed by the Group of Experts on Explosives that the extent to which governments and the international organizations concerned took into account the result of work done and the value that they would attach to such results would depend not only on the quality of the work but in a large measure on the speed with which conclusions were reached.

53. The Committee recommended that arrangements should be made for the holding of the following meetings:

(a) Third quarter of 1964

Group of Experts on Explosives (duration about one week)

(b) End of 1964

Group of Rapporteurs on <sup>the</sup> Packaging of Dangerous Goods  
(duration about one week)

(c) Spring 1965

Committee of Experts (duration about two weeks).

54. It was hoped that it would not be necessary to hold a meeting of rapporteurs in respect of the standardization of gas cylinders (see paragraph 44, above). Should such a meeting be necessary, it would probably not last more than one day.

55. The Committee recommended that adequate resources, including the services of a consultant, be given to the Secretariat to carry out the added burden placed on it. It further recommended that the written procedure (notes from governments and international organizations circulated by the Secretariat) be extensively used in preparing the meetings of the Committee.

#### NAME OF THE COMMITTEE

56. The Committee was of the opinion that its name should be changed to a less cumbersome appellation. It suggested that it be renamed "United Nations Committee of Experts on the Transport of Dangerous Goods". Should it be feared that this new name might lead to confusion because of the name given to the Committee which drew up the 1956 Recommendations, the figure 1964 might be inserted in brackets at the end of the new name.

#### DRAFT RESOLUTION FOR THE ECONOMIC AND SOCIAL COUNCIL

57. The Secretariat was asked to prepare, in consultation with the Chairman, a draft resolution to be submitted to the Economic and Social Council.

A. AMENDMENTS TO THE LIST OF DANGEROUS GOODS 1/

CLASS I  
CLASSE I

The titles of the subdivisions of this class should read as follows:

1 (a) Explosives with a mass explosion risk

- 1 (a) (i) - Initiating explosives; contrivances which contain both explosives and their own means of ignition.
- 1 (a) (ii) - Explosive substances other than initiating explosives; contrivances containing explosives but not their own means of ignition.
- 1 (a) (iii) - Contrivances designed to produce illumination, incendiary, smoke or sound effects; igniters; starter cartridges; small arms ammunition with explosive bullets; fireworks liable to explode violently.

1/ This list covers the amendments proposed by the Group of Experts on Explosives at its second session (E/CN.2/CONF.5/6). It also includes adjustments to the list of explosives made by this Committee after its study of entries concerning collodion cotton in Class 3 and category 4(a)

A. AMENDMENTS A LA LISTE DES MATIERES DANGEREUSES 1/

Les titres des subdivisions de cette classe doivent se lire comme suit :

1 (a) Matières et objets explosibles susceptibles d'exploser en masse

- 1 (a) (i) - Explosifs d'amorçage; engins contenant à la fois des explosifs et leur propre dispositif de mise à feu.
- 1 (a) (ii) - Matières explosives autres que les explosifs d'amorçage; engins contenant des explosifs non munis de leur propre dispositif de mise à feu.
- 1 (a) (iii) - Engins destinés à produire des effets éclairants, incendiaires, fumigènes ou sonores; inflammateurs; cartouches pour engin de démarrage; munitions pour armes portatives à balles explosives; artifices sujets à explosion violente.

1/ Cette liste recouvre les amendements proposés à sa deuxième session par le Groupe d'experts en matières et objets explosibles (E/CN.2/CONF.5/6). Elle comprend également des modifications à la liste des matières et objets explosibles effectués par le Comité d'experts après son étude des rubriques relatives au coton-collodion dans la classe 3 et la catégorie 4(a)

CLASSE I (cont'd)  
CLASSE I (suite)

- 1 (b) Explosives which do not explode en masse
- 1 (b) (i) - Contrivances containing explosives with or without their own means of ignition.
- 1 (b) (ii) - Samples of explosives, other than initiating explosives.
- 1 (c) Explosives having a fire hazard with minor or no explosion effects
- Category I (a) (i)
- Insert new entry:  
"Detonating fuses (such as Cortex and Primacord) other than metal clad"
- after "Detonating fuzes" insert "(for shells, mines, bombs, torpedoes, etc.)"
- Category I (a) (ii)
- Insert three new entries:  
Benzoyl peroxide, dry or insufficiently phlegmatized  
Cyclohexanone peroxide, dry or insufficiently phlegmatized  
Parachlorobenzoyl peroxide, dry or insufficiently phlegmatized
- 1 (b) Matières et objets explosibles non susceptibles d'exploser en masse
- 1 (b) i) - Engins contenant des explosifs, munis ou non de leur propre dispositif de mise à feu.
- 1 (b) ii) - Echantillons d'explosifs, autres que les explosifs d'amorçage.
- 1 (c) Matières et objets explosibles présentant un danger d'incendie, mais dont les effets résultant de leur explosion sont minimes ou nuls
- Catégorie I a) i)
- Insérer une nouvelle rubrique :  
"Cordeaux détonnants (tels que Cortex et Primacord) autres que ceux à enveloppe métallique"
- après "Fusées-détonateurs" insérer "(pour obus, mines, bombes, torpilles, etc.)"
- Catégorie I a) ii)
- Insérer trois nouvelles rubriques :  
Peroxyde de benzoyle, sec ou insuffisamment flegmatisé  
Peroxyde de cyclohexanone, sec ou insuffisamment flegmatisé  
Peroxyde de parachlorobenzoyle, sec ou insuffisamment flegmatisé

CLASS I (contd)  
CLASSE I (suite)

Category 1 (a) (ii) - continued

- After "Cyclotriméthylènetrinitramine", the text in brackets should read:  
"(cyclonite, hexogene, E.D.A.)."
- The entry on lines 7 to 11, page 9 of E/CN.2/CONF.5/2/Rev.1 should read:  
"Explosives, blasting, without nitroglycerin, nitroglycol, or mixtures thereof, containing inorganic nitrates, for example certain mixtures of ammonium nitrate and trinitrotoluene and certain mixtures of ammonium nitrate and carbonaceous materials such as dinitronaphthalene, wood meal and diesel oil".
- The entry "Guncotton" should read:  
"Guncotton, wetted with less than 25% water".
- Replace "Nitrocellulose (under certain conditions)" by the following two entries:
  - Nitrocellulose containing not more than 12.6% of nitrogen (collodion cotton) wetted with less than 20% water.

Catégorie 1 (a) (ii) - suite

- Après "cyclotriméthylènetrinitramine", le texte entre parenthèses doit se lire :  
"(Hexogène, Cyclonite)".
- La rubrique qui se trouve aux lignes 14 à 17, page 8, de E/CN.2/CONF.5/2/Rev.1 doit se lire :  
"Explosifs de mine sans nitroglycérine, ni nitroglycol, ni mélange de ces corps, contenant des nitrates inorganiques, par exemple certains mélanges de nitrate d'ammonium et de trinitrotoluène et certains mélanges de nitrate d'ammonium avec des matières carbonées telles que le dinitronaphtalène, la farine de bois et l'huile à diesel".
- La rubrique "Coton-poudre" doit se lire :  
"Coton-poudre (fulmi-coton) humidifié avec moins de 25 % d'eau".
- Remplacer "nitrocellulose (sous certaines conditions)" par les deux rubriques suivantes :
  - Nitrocellulose à taux d'azote ne dépassant pas 12,6% (coton-collodion), humidifiée avec moins de 20 % d'eau.

CLASS I (contd)  
CLASSE I (suite)

Category 1 (a) (ii) - continued

- Nitrocellulose containing not more than 12.6% nitrogen (collodion-cotton) impregnated with less than 25% of alcohols or other inflammable liquids.

- After:

- Nitroglycerin, spirit of
- Spirit of nitroglycerin

add

"over 5% solution in alcohol".

Category 1 (b) (i)

Delete

"Detonating fuse (such as Cortex, Primacord, etc.)"

Category 1 (c)

.. Insert an asterisk against the following entries:

- Ammunition rocket, without projectiles
- Rocket, ammunition, without projectiles
- Smokeless powder for cannon or small arms of which the principal hazard is fire
- Explosives, propellant, of which the principal hazard is fire

Propellant explosives of which the principal

hazard is fire.

Delete:

"Bombs, incendiary or smoke, without bursting charge"

Catégorie 1 (a) (ii) - suite

- Nitrocellulose à taux d'azote ne dépassant pas 12,6 % (coton-collodion), imprégnée de moins de 25 % d'alcools ou d'autres liquides inflammables.

- Après :

- Nitroglycérine en solution alcoolique

ajouter :

"à plus de 5 %"

Catégorie 1 (b) (i)

Supprimer

"Cordeaux détonants (tels que Cortex, Primacord, etc.)"

Catégorie 1 (c)

- Insérer un astérisque en regard des rubriques suivantes :

- Roquettes, sans projectile
- Poudre sans fumée pour canons ou armes portatives, présentant principalement le risque d'incendie
- Poudre propulsive présentant principalement le risque d'incendie.

Supprimer :

"Bombes incendiaires ou fumigènes, sans charge d'éclatement"

CLASS I (contd)  
CLASSE I (suite)

Catégorie I (c) - suite  
et insérer :

- \* Bombes incendiaires, sans charge d'éclatement  
Bombes, fumigènes, sans charge d'éclatement
- Insérer une nouvelle rubrique :  
"Coton-poudre (fulmi-coton) humidifié avec au moins  
25 % d'eau".
- Modifier la rubrique :  
"Engins de démarrage (Jato), non sujets à explosion  
en masse"  
qui doit se lire :  
"\* Engins à bloc-fusée (y compris les accélérateurs  
de décollage) non sujets à explosion en masse".
- Insérer au bas des pages relatives à cette catégorie  
un renvoi libellé comme suit :  
"\* Comporte un risque d'incendie très violent."

Category I (c) - continued  
and insert:

- \* Bombs, incendiary, without bursting charge  
- Bombs, smoke, without bursting charge
- Insert new entry:  
"Guncotton wetted with at least 25% water."
- Amend:  
"Jet thrust unit (Jato), not liable to mass  
explosion"  
to read:  
"\* Jet thrust unit (including Jato), not  
liable to mass explosion".
- Insert a footnote at the bottom of the relevant  
pages reading  
"\* Presents a major fire hazard."

CLASS 2  
CLASSE 2

Amend to read:

"ammonia anhydrous, liquefied and ammonia solutions having a density (specific gravity) of less than 0.880 at 15°C.

1005 Modifier comme suit :

"ammoniac anhydre, liquéfié et ammoniac en solution d'une densité inférieure à 0,880 à 15°C.

Delete this entry (duplication with 1071)

1007 Supprimer cette rubrique (double emploi avec 1071)

Add cross reference to class 3.

1011 Ajouter un renvoi à la classe 3

Add cross reference to class 3.

1012 Ajouter un renvoi à la classe 3

Add at the end ", liquefied"

1023 Lire "gaz de houille"

1038 Ajouter à la fin ", liquéfié"

1039 Lire "Ether méthyl-éthylque (oxyde de méthyle et d'éthyle)"

1041 Déplacer les parenthèses afin de lire ....

"(90 % en poids) ..... (10 % en poids)"

1043 Supprimer la parenthèse et mettre une virgule après "engrais"

After "compressed" insert "or liquefied"

1044 Ajouter à la fin "ou liquéfié"

Read "Insecticide gas"

1054 Lire "Gaz insecticide"

Add cross reference to category 6a followed by

Ajouter un renvoi à la catégorie 6a suivi de "(si la nature de l'insecticide l'exige)"

"(if the nature of the insecticide demands it)"

Add cross reference to class 3

1055 Ajouter un renvoi à la classe 3

1060 Lire "Mélange de méthyl-acétylène et de propadiène (15 à 20 %)"

Add cross reference to class 3

Ajouter un renvoi à la classe 3

Add cross reference to class 3

Ajouter un renvoi à la classe 3



CLASS 2 (contd)  
CLASSE 2 (suite)

New text:	1067	Nouveau texte :	
"Nitrogen dioxide (Nitrogen tetroxide) liquefied"		"Peroxyde d'azote (tétroxyde d'azote) liquéfié"	
		Insérer la même matière à la lettre "T" sous le même numéro :	
Delete	1068	Supprimer	"Tétroxyde d'azote (Peroxyde d'azote)"
Add cross reference to category 6a	1079	Ajouter un renvoi à la catégorie 6a	
Delete	1084	Supprimer	
	1087	Biffer le mot "mixte"	
Silicon tetrafluoride:	....	Tétrafluorure de silicium :	Ajouter un renvoi aux catégories 6a et 8
Add cross reference to category 6a and class 8		Ajouter un renvoi aux classes 6a et 8	
Add the following entries:		Ajouter les rubriques suivantes :	
- Diborane (with cross reference to class 3 and category 6a)	....	- Diborane (avec renvoi aux classes 3 et catégorie 6a)	
- Methyl chloride-methylene chloride mixture	....	- Mélange de chlorure de méthyle et de chlorure de méthylène	
- Neon, liquid, pressurized	....	- Néon, liquide, pressurisé	
- Nitric oxide (with cross reference to category 6a)	166C	- Bioxyde d'azote (oxyde nitrique) (avec renvoi à la catégorie 6a)	
- Boron trichloride (with cross reference to class 8)	1741	- Chlorure de bore (avec un renvoi à la classe 8)	

CLASS 3  
CLASSE 3

Add "inhibited"	1092	Ajouter "stabilisé"
Add "inhibited"	1093	Ajouter "stabilisé"
Delete "liquid"	1094	Supprimer le mot "liquides"
Add "(methylated spirit)"	1095	
Add cross reference to category 6a	1100	Ajouter un renvoi à la catégorie 6a
Use the plural	1105	Utiliser le pluriel
Read "Bitumen cut-backs or asphalt cut-backs (Road asphalt liquid or tar liquid) having a flash point below 150°F (65.6°C)"	1116	Lire "Cut-backs bitumineux ayant un point d'éclair inférieur à 65,6°C"
Add cross reference to category 6a	1117	Lire "solution de nitrocellulose"
New text:	1131	Ajouter un renvoi à la catégorie 6a
Nitrocellulose containing not more than 12.6% of nitrogen (collodion cotton), wetted with more than 35%, by weight, of alcohols or other inflammable liquids.	1138	Remplacer "naphte" par "huile"
	1140	Nouveau texte : Nitrocellulose à taux d'azote n'excédant pas 12,6 % (coton-collodion) contenant plus de 35 %, en poids, d'alcools ou d'autres liquides inflammables.
	1141	Nouveau texte : Collodions, solutions de nitrocellulose à taux d'azote n'excédant pas 12,6 % (coton-collodion) dans des solvants inflammables.

CLASS 3 (contd)  
CLASSE 3 (suite)

Delete this entry	1151	Supprimer cette rubrique
Delete: "see"	1153	Biffer : "voir" Lire : "1-2 diéthoxyéthane ....."
Read "Dioxolane"	1166	
	1179	Doit se lire : "Ether éthylbutylique (oxyde d'éthyle et de butyle)"
Add cross reference to category 6a	1182	Ajouter un renvoi à la catégorie 6a
Add at the end: "(1:2-Dichloroethane)"	1184	Ajouter à la fin : "(1-2 Dichloroéthane)"
Renumber 1171	1186	Renumeroter 1171
Renumber 1172	1187	Renumeroter 1172
Add at the end "(Methyl glycol)"	1188	
Delete "(see Amyl alcohol)"	1201	Biffer : "(voir : alcool amylique)"
Add at the end: "(motor spirit)"	1203	Lire : "essence (carburant pour moteur)"
Under "P" insert new entry: "Petrol (motor spirit)"	1204	Lire : "... en solutions alcooliques à 5 % au plus"
After "nitroglycerin" read: "solution up to 5% ....."	1206	La parenthèse doit être fermée après "Nitroglycérine" Ajouter un "s" à la fin du mot
Bracket should be closed after "Nitroglycerin"	1208	Ajouter un "s" à la fin du mot
	1209	Lire : "Liquides inflammables ..."
	1211	Lire : "Insecticides liquides et aérosols....." Supprimer le texte entre parenthèses

CLASS 3 (contd)  
CLASSE 3 (suite)

New text:

Lacquer-chips (nitrocellulose) wetted with an inflammable liquid, having a flash point below 150 F. (65.6°C).

New text:

Lighters for cigars, cigarettes, etc. containing lighter fluid; fluid for such lighters.

Delete

Add cross reference to category 6a

Renumber 1095 and insert "(alcohol, denatured)"

Add at the end "inhibited"

Add cross reference to class 8

Renumber 1203; change text to read:

"Motor spirit (includes gasoline or petrol)"

Renumber 1138

Renumber 1204

Insert an asterisk against the entry and a footnote at the foot of the page:

"\* This substance possesses some dangerous explosive properties".

Add cross reference to category 6a

1225 Nouveau texte :

Copeaux pour laque (nitrocellulose) mouillés avec un liquide inflammable dont le point d'éclair est inférieur à 65,6°C.

1226 Nouveau texte :

Briquets contenant un liquide combustible; liquide combustible pour briquets.

1227 Supprimer

1230 Ajouter un renvoi à la catégorie 6a

1233 Lire : "Amylacétate de méthyle"

1236 Renumeroter 1095

1247 Ajouter à la fin "stabilisé"

1250 Ajouter un renvoi à la classe 8

1252 Renumeroter 1203; et à la fin dire "(comprend l'essence)"

1253 Renumeroter 1138; lire "huile" au lieu de "naphte"

1260 Renumeroter 1204; mettre "solution alcoolique" au pluriel

1261 Insérer un astérisque en regard de cette rubrique et un renvoi en bas de page :

"\* Cette matière a des propriétés explosives dangereuses".

1282 Ajouter un renvoi à la catégorie 6a

1283 Nouveau texte :

Pyroxyline en solution

CLASS 3 (contd)  
CLASSE 3 (suite)

1302 Lire : "Ether éthyl-vinyle....."

Add the following entries in the list:

Butylpropionate	.....	Propionate butylique
Cyclohexanone	.....	Cyclohexanone
Dichloroether	.....	Ether bichlorique
Ethyl acrylate, inhibited	.....	Acrylate d'éthyle, stabilisé
Isopropylbenzene (Cumene)	.....	Cumène (Isopropyl-benzène)
Methyl acrylate, inhibited	.....	Acrylate de méthyle, stabilisé
Nonane	.....	Nonane
Propyleneimine, inhibited	.....	Propylène-imine, stabilisé
Pyrrolidine	.....	Pyrrolidine

CLASS 4  
CLASSE 4

Category 4(a)

- Delete
- Delete "(see Nitrocellulose)"
- Delete

New Text:

Lacquer base (nitrocellulose) and lacquer chips.

New text:

Nitrocellulose containing not more than 12.6% of nitrogen (collodion cotton), wetted with at least 25%, by weight, of water, when nitrocellulose is not in chips, flakes or blocks.

These entries should be marked by an asterisk

Delete

Delete

1/ If IAEA made no provisions for the carriage of this substance, it would have to be re-instated.

Catégorie 4 (a)

- Supprimer
- Biffer "(voir nitrocellulose)"
- Supprimer
- Lire : "... (hexaméthylène)"

Nouveau texte :

Nitrocellulose sous forme de matière de base ou de copeaux pour laque

1333 Ajouter à la fin "(Mischmetall)"

1334 Lire : "Naphthalène (Naphthaline), brute ou raffinée"

Nouveau texte :

Nitrocellulose à teneur d'azote n'excédant pas 12,6 % (coton-collodion) humidifiée avec au moins 25 %, en poids, d'eau, lorsque la nitrocellulose n'est pas sous forme de copeaux, d'écaillies ou de blocs.

(1336)  
(1337)  
(1349)

Ces rubriques devraient être marquées d'un astérisque.

1342 Supprimer

1348 Lire : "Dinitrocrésate....."

1351 Supprimer

1/ Si l'AIEA ne stipule aucune prescription relative au transport de cette matière, elle devra être réincorporée.

CLASS 4 (contd)  
CLASSE 4 (suite)

Category 4 (a) - continued

Add at the end "(nitrocellulose based)"

Magnesium metallic granules

This entry is amended as follows:

Magnesium and Magnesium alloys,  
containing more than 50% magnesium  
in powder, pellets, turnings or  
ribbons. 2/

Add the following entries:

- Nitrocellulose containing not more than 12.6%  
of nitrogen (collodion cotton), wetted with at  
least 25% and not more than 35%, by weight, of  
alcohols or other inflammable liquids.  
- Nitrocellulose containing not more than 12.6%  
of nitrogen (collodion cotton), wetted with at  
least 20%, by weight, of water, when nitrocellu-  
lose is in chips, flakes or blocks.

-- Driers, paint or varnish in solid form, L.O.S.  
(transferred from category 4b).

The note at the end of category 4a is amended as  
shown in paragraph 6 of the report.

2/ If this wording is maintained, that of 1418  
in category 4 (c) will have to be amended.

Catégorie 4 e) - suite

1353 Nouveau texte: "roche ensuite (à base de nitrocellulose)"

Magnésium métallique en grains

Cette rubrique est modifiée comme suit :

Magnésium et alliages de magnésium  
contenant plus de 50 % de magnésium en  
copeaux, en granulés, en poudre ou  
rubans. 2/

Ajouter les rubriques suivantes :

- Nitrocellulose à taux d'azote n'excé-  
dant pas 12,6 % (coton-collodion),  
contenant au moins 25 % et au plus  
35 %, en poids, d'alcools ou  
d'autres liquides inflammables.  
- Nitrocellulose à taux d'azote  
n'excédant pas 12,6 % (coton-  
collodion), humidifiée avec au moins 20%, en poids,  
d'eau lorsque la nitrocellulose est sous forme de  
copeaux, d'écaillés ou de blocs.  
- Siccatifs solides pour peintures ou vernis, n.s.a.  
(transféré de la catégorie 4b).

La note à la fin de la catégorie 4e est  
modifiée de la manière indiquée au para-  
graphe 6 du rapport.

2/ Si cette rédaction est maintenue, celle  
du 1418 à la catégorie 4 c) devra être  
modifiée.

CLASS 4 (contd)  
CLASSE 4 (suite)

	<u>Category 4 (b)</u>	<u>Catégorie 4 (b)</u>
	(Trichlorosilane) delete - (This substance is transferred to category 4 (c))	1295 (Trichlorosilane) biffer - (cette matière est transférée à la catégorie 4 c))
	Delete (transferred to category 4 (c))	1360 Biffer - (transféré à la catégorie 4 c))
		1361 Nouveau texte :
		Noir d'animal ou d'os
		1362 Nouveau texte :
		Charbon de bois et autres charbons d'origine végétale.
		1371 Biffer
		1374 Au lieu de "en", lire "ou"
		1378 Après "40 %", insérer "en poids" Au lieu de "convenant", lire "convenant".
	Add at the end "(includes carbon paper)"	1379 Ajouter à la fin "(Comprend le papier carbone)"
	Add cross reference to category 6a.	1380 Ajouter un renvoi à la catégorie 6a
	Add at the end: "Finished metal sheets, strip or coiled wire"	1388 Ajouter à la fin : "de feuilles métalliques, bandes ou fil"



CLASS 4 (contd)  
CLASSE 4 (suite)

Add the following entries:

- Calcium Dithionite
- Diethyl aluminium chloride  
(Aluminium diethylmonochloride)
- Ethyl aluminium dichloride
- Ethyl aluminium sesquichloride
- Methyl aluminium sesquibromide
- Methyl aluminium sesquichloride
- Methyl magnesium bromide in  
ethyl ether
- Potassium dithionite
- Tri-isobutyl aluminium
- Zinc dithionite
- Zirconium scrap, in the form of  
chippings, swarf, turnings, etc.

Ajouter les rubriques suivantes :

- 1101
- Hydrosulfite de calcium
  - Chlorure de diéthylaluminium  
(Chlorure d'aluminium-diéthyle)
  - Dichlorure d'éthyl-aluminium
  - Sesquichlorure d'éthylaluminium
  - Sesquibromure de méthylaluminium
  - Sesquichlorure de méthylaluminium
  - Bromure de méthyle magnésien dans  
l'éther éthylique
  - Hydrosulfite de potassium
  - Triisobutylaluminium
  - Hydrosulfite de zinc
  - Zirconium, déchets sous forme de  
copeaux, limailles, tournures, etc.

CLASSE4 (cont'd)  
CLASSE 4 (suite)

Category 4 (c).

Add the following entries:

- Calcium phosphide
- Trichlorosilane  
(with cross reference to class 3)

Catégorie 4 (c)

1418<sup>1/</sup>  
Lire : "Magnésium et alliages de  
magnésium en poudre"

Ajouter les rubriques suivantes :

- 1360 - Phosphure de calcium
- 1295 - Trichlorosilane (Silichloroforme)  
(avec renvoi à la classe 3)

---

<sup>1/</sup> See remarks under category 4(b) in respect of new text of "Magnesium metallic granules".

---

<sup>1/</sup> Voir remarque dans la catégorie 4 b) au sujet de nouveau texte de "Magnésium métallique en grains".

CLASS 5  
CLASSE 5

Category 5 (a)

Delete

1441  
and et  
1443

Supprimer

(1461  
(1481  
(1483

Substitute "n.o.s." for "not otherwise specified"

Insert an asterisk against this entry and the following footnote at the bottom of the page:

Insérer un astérisque en regard de cette rubrique et la note suivante en bas de page :

"There is a risk that this substance suitably wetted when offered for transport may lose part of, or all, its wetness during transport (e.g. leakage of packaging through one cause or another) and then present an explosive hazard."

"Il se peut que cette matière, convenablement humidifiée lorsqu'elle est remise au transporteur, perde la totalité ou une partie de son humidité en cours de transport (par exemple par suite de fuite de l'emballage résultant d'une cause ou d'une autre) et présente alors un danger d'explosion."

Lead peroxide

Add cross reference to category 6 (a)

Feroxyde de plomb

Ajouter un renvoi à la catégorie 6 (a)

Category 5 (b)

Catégorie 5 (b)

Pinane hydroperoxide

Hydroperoxyde de pipane

should read "Pinene hydroperoxide"

doit se lire "Hydroperoxyde de pinène"

Delete (transferred to category 1 (a)(ii))

Supprimer (transféré à la catégorie 1 (a)(ii))

1520  
1533)  
1534)

Au lieu de "non spécifiés par ailleurs", lire : "n.s.a."

Tertiary dibutyl perphthalate

Perphthalate de butyle tertiaire

Add at the end: "suitably phlegmatized"

Ajouter à la fin : "Convenablement flegmatisé".

CLASS 6  
CLASSE 6

Category 6 (a)

Delete (included under 1682)

After "Cocculus", insert "(Indian  
berry)" and delete "solid"

Should read "Hexaethyl ...."

Delete (transferred to class 2)

Read: "Parathion..."

Delete

Read: "Toluidines, liquid"

Add following entries:

Cyanide solutions, n.o.s.  
Mercury compounds, n.o.s. liquid  
Orthonitroaniline

Catégorie 6 (a)

1543 Lire : "... secs ou liquides..."

1563 Biffer (compris dans 1682)

1567 Faire figurer cette rubrique également sous la  
lettre "B" en lisant "Beryllium (glucinium)  
métallique..." avec renvoi à la catégorie 4 (c)

1584 Lire "Coques du levant (Cocculus)"

1605... Lire "Dibromure..."

1610 Le texte avant la parenthèse doit se lire :  
"Matières irritantes halogénées liquides".

1611...

1632 (Bichlorure de mercure)

Renumeroter 1624

1624 (Bromure de mercure)

Renumeroter 1634

1660 Biffer (transféré à la classe 2)

1663 Lire : "Paranitrophénol..."

1668 Lire : "Parathion et ses mélanges..."

1676 Biffer

1707 Lire : "Composés..."

1708 Lire : "Toluidines liquides"

Ajouter les rubriques suivantes :

.... Solutions de cyanures, n.s.a.  
.... Composés de mercure n.s.a. liquides  
.... Orthonitroaniline

CLASS 8  
CLASSE 8

1715 Ajouter à la fin "(Oxyde acétique)"  
1721 Lire : "Electrolyte alcalin pour ..."  
1730 Dans les parenthèses, lire "(perchlorure d'antimoine)"  
1738 Ajouter un renvoi à la classe 3  
1741 Biffer (transféré à la classe 2)  
1757 Biffer le renvoi à la classe 2  
1785 2ème ligne, lire : "50 % d'eau ou moins"  
1826 (Acide résiduaire) - Cette rubrique doit être remplacée par deux autres :

1826 - Acide sulfonitrique résiduaire  
(anglais "Spent acid")

.....- Acide sulfurique résiduaire  
(anglais "Sludge acid")

1839 Lire : "... trichloracétique ..."

Insérer les rubriques suivantes :

..... Acide bromacétique, en solution

..... Oxybromure de phosphore

..... Acide thioglycolique

Add cross reference to class 3  
Delete (transferred to class 2)  
Delete cross reference to class 2

Insert the following entries:

Bromoacetic acid, solution

Phosphorous oxybromide

Thioglycolic acid

CLASS 9  
CLASSE 9

- |      |  |
|------|--|
| 1843 | Lire : "Dinitrocrésate ..."            |
| 1846 | Ajouter un renvoi à la catégorie 6 (a) |
|      | Ajouter la rubrique suivante :         |
| .... | Dibromodifluorométhane                 |
- 
- |  |                                       |
|--|---------------------------------------|
|  | Add cross reference to category 6 (a) |
|  | Add the following entry:              |
|  | Dibromodifluoromethane                |

## B. ITEMS TO BE TAKEN UP AT THE NEXT SESSION OF THE COMMITTEE

1. List of substances which might be excluded from carriage (E/CN.2/CONF.5/R.18, page 2; E/CN.2/CONF.5/6, paragraph 12).
2. Empty uncleaned receptacles (E/CN.2/CONF.5/R.18/Add.1, pages 4 to 6 and Add.2; E/CN.2/CONF.5/6, paragraph 14).
3. Listing of goods of class 2 in order of decreasing (or relative) danger (E/CN.2/CONF.5/R.18/Add.6, page 2).
4. Entries concerning Propane, Butane and butane mixtures and, in general, the liquefied petroleum gases (E/CN.2/CONF.5/R.18/Add.6, page 3).
5. The desirability of including under class 2 "Engine starting fluid, charged with flammable gas" and "Nitrogen tetroxide - nitric oxide mixtures".<sup>\*/</sup>
6. Whether Trimethylamine (1084), at present in class 2, should be transferred to class 3.
7. The flash point of inflammable liquids (class 3).
8. The classification of insecticide liquids and aerosol taking their flash point into account (E/CN.2/CONF.5/R.18, page 5, and E/CN.2/CONF.5/R.18/Add.5, page 3).
9. The determination of the maximum concentration for various substances of class 5 (a), in particular hydrogen peroxide.
10. The desirability of including etiologic agents in class 6 (b) (E/CN.2/CONF.5/R.18/Add.4, page 4 and annex).
11. The desirability of formulating a general definition of toxicity (E/CN.2/CONF.5/R.18/Add.6, page 5 footnote).
12. The desirability of ammonium dinitro-orthocresolate (1843, Class 9) being grouped under explosives or under poisons. (E/CN.2/CONF.5/R.18, page 9).
13. The listing of matches and coated aluminium powder (E/CN.2/CONF.5/3, paragraphs 27 and 28).

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<sup>\*/</sup> The expert from the USA stated that he would send the Secretariat for circulation particulars of these items and information on the extent to which they are carried.

Annex 2

AMENDMENTS TO THE SECRETARIAT'S PROPOSAL  
IN RESPECT OF THE REVISED TEXT OF THE  
"RECOMMENDATIONS ON THE TRANSPORT OF  
DANGEROUS GOODS"

(E/CN.2/CONF.5/R.17)

1. Paragraph 4 (page 5). The beginning should read:  
"This document contains an abridged and revised version of the  
'Recommendations ...'."
2. Paragraph 1 (page 6). Instead of "unpacked dangerous goods" read:  
"dangerous goods in bulk".
3. Paragraph 2 (page 6). Delete the word "easily" in the proposed text.
4. Paragraph 5 (page 6). The first sentence should be deleted.
5. Paragraphs 8 and 9 (page 6). To avoid repetition, these paragraphs should  
be combined with paragraphs 2 and 3 which precede them. The Secretariat was  
asked to draft a new text and insert it in the revised issue.
6. Paragraph 10 (page 6). The French text of the first sentence should be  
a faithful translation of the proposed English text.
7. Paragraph 11 (page 6). The words "main" and "provided by way of  
illustration" should be deleted in the penultimate sentence.
8. Paragraphs 12 and 13 (page 7). The wording proposed by the Group of  
Experts on Explosives (E/CN.2/CONF.5/6, paragraphs 5 and 23) in respect of  
the definitions and headings of categories 1(a), 1(b) and 1(c) was adopted.
9. Paragraph 14 (page 7). The first sentence should read:  
"Because of the difficulty of reconciling the various systems of regulations,  
the definitions in this class are of a general nature, so as to cover the  
various systems."
10. Paragraph 15 (page 7). In two places, substitute the words  
"ambient temperatures" for "normal temperatures".
11. Paragraph 16 (page 7). Delete text after "under pressure".
12. Paragraph 18 (page 8). In the second sentence, instead of "should be"  
read "may be" and add a footnote reading: "In annex ..., substances of  
this class have not been listed in separate categories."



13. Paragraph 20 (page 8). The title of the class should read:  
"Class 4 - Inflammable solids; substances liable to spontaneous combustion; substances which, on contact with water, emit flammable gases."  
The titles of the categories (a), (b) and (c) should be amended accordingly and the definition of category (a) should read "these are solids, ..."
14. Paragraph 21 (page 8). The title of Class 5 should read:  
"Class 5 - oxidizing substances; organic peroxides".  
Substitute the words "cause, or contribute to", for "stimulate" and delete "and intensify the violence of a fire".
15. Paragraph 22. The text of (a) (i) should be amended to read:  
"(i) Substances which give off...".  
A footnote should be added to say that in annex ... substances of 6 (a) (i) and (ii) have not been classified in separate subdivisions.
16. Paragraph 23 (page 8). The text of this paragraph should read as follows:  
"In respect of the transport of radioactive substances, the International Atomic Energy Agency (AIEA) is entrusted with the drafting of recommendations in consultation with the United Nations and the specialized agencies concerned (see, however, paragraph ... and annexes ... in respect of labels and labelling)".
17. Paragraph 24 (page 8). Delete the words: "Such as acids, alkaline caustic and other corrosive liquids and solids".
18. Paragraph 25 (page 8). The text should read:  
"These are substances which present a danger during transport which would not be covered by the other classes".
19. Paragraphs 26 and 28 (page 9). The two paragraphs should be combined and should read as follows:  
"The list in annex 1 which includes the dangerous goods most commonly carried is not exhaustive. The goods included give guidance for the classification, by analogy, of goods not included in the list."
20. Paragraph 31 (page 9). For "paragraph 28" read "paragraph 26".
21. Paragraph 32 (page 10). Delete footnote 1/.
22. Paragraph 33 (page 10). Delete this paragraph.

23. Paragraph 34 (page 10). Second line. Instead of "compressed gases (class 2)" read "non-inflammable compressed gases of class 2". At the end add: "in both cases the number to be shown in the bottom corner of the label should be that of class 2". (Delete footnote).
24. Paragraph 37 (page 11). The Committee adopted alternative 1 where the words "(divisions, subdivisions)" should be deleted and the word "should" substituted for "must".
25. Paragraph 38 (page 11). The text should read:  
"When a substance or article presents more than one risk, for example fire and poisoning, one label for each risk should be affixed to the package; in such a case the label corresponding to the class in which the substance or article is listed \*/ should bear the number of that class; other labels should bear no class number".  
Insert the following footnote at the foot of the page:
- 
- \* In the case of gases in respect of which a label bearing a "gas cylinder" symbol is not used, the label showing the symbol of the class corresponding to the major risk should bear a number 2 (see paragraph 34 above).
26. Paragraph 39 (page 11). For "real danger" read "significant danger".
27. Paragraph 41 (page 11). In the text of document ST/ECA/43, paragraph 58 (not reproduced in E/CN.2/CONF.5/R.17), the following: "designation of the goods, including internationally valid code numbers, where applicable," should be substituted for: "name of the goods<sup>13/</sup>". The footnote at the foot of the page should be deleted.
28. Annex 1 (general). All unnecessary double entries of items should be deleted from the list; synonyms should be maintained and bear the same number.
29. Annex 1 (page 1). The title should read "LIST OF DANGEROUS GOODS MOST COMMONLY CARRIED".
30. Annex 1 (page 1) footnote 5. The proposal of the Group of Experts on Explosives (E/CN.2/<sup>CNF</sup>CN.5/6, paragraph 24) was adopted.

31. Annex 1 (page 2). NOTE at the end of class 4(a): The text of the first sentence should be that given in paragraph 6 of this report; the last sentence should be maintained.
32. Annex 1 (page 3). Class 7. No list of substances to be included. Reference should be made to the IAEA recommendations.
33. Annex 1 Appendix. This appendix should simply give, by way of examples, a short list of the names and reference, numbers of the devices and testing methods mentioned or referred to in document E/CN.2/CONF.5/3, paragraph 17. (See also paragraph 23 of this report).
34. Annex 2, paragraphs 3 and 4. These two paragraphs should be combined as follows:

" The number of the class in which the substance or article is listed should be shown in the bottom corner of the label (see, however, paragraph 38 in respect of substances and articles presenting more than one risk).

Blanks in the text appearing in the lower half of the labels for radioactive substances should be completed as necessary. On labels other than those for radioactive substances, the insertion of some text in the space below the symbol should be confined to particulars indicating the nature of the risk and the precautions to be taken in handling."

35. Annex 2 Appendix. (Instructions for the presentation of this Appendix)
- (i) Except in respect of labels for radioactive substances, no text should appear on the model labels.
  - (ii) The place for showing the class number should be indicated.
  - (iii) The model label for radioactive substances should not show a "skull and cross-bones" symbol.
-