



NOTE DE TRAVAIL

GROUPE D'EXPERTS SUR LES MARCHANDISES DANGEREUSES (DGP)

VINGT-TROISIÈME RÉUNION

Montréal, 11 – 21 octobre 2011

Point 2 : Élaboration de recommandations relatives à des amendements des *Instructions techniques pour la sécurité du transport aérien des marchandises dangereuses* (Doc 9284) à introduire dans l'édition de 2013-2014

**MARCHANDISES DANGEREUSES QUI NE SONT PAS VISÉES PAR L'ENSEMBLE
DES PRESCRIPTIONS DES INSTRUCTIONS TECHNIQUES**

(Note présentée par G.A. Leach)

SOMMAIRE

(Faute de ressources, seuls le sommaire et l'appendice A ont été traduits.)

La présente note de travail vise à préciser un certain nombre de points des Instructions techniques concernant des marchandises dangereuses qui ne sont pas visées par l'ensemble des prescriptions des Instructions.

Suite à donner par le DGP : Comme suite aux travaux entrepris à la réunion DGP-WG/11, le DGP est invité à examiner les amendements des Instructions techniques présentées en appendice.

1. INTRODUCTION

1.1 At the DGP Working Group of the Whole Meetings in Abu Dhabi (DGP-WG/10, 7 to 11 November 2010) and Atlantic City (DGP-WG/11, 4 to 8 April 2011) (DGP/23-WP/2, paragraph 3.2.3 and DGP/23-WP/3, paragraph 3.2.1 refer) the issue of dangerous goods which are not subject to all of the requirements of the Technical Instructions (e.g. by way of a special provision) was raised. At DGP-WG/11 (DGP/23-WP/3, paragraph 3.2.1 refers), an ad-hoc working group considered each of the occasions where this occurs and the views of that group are appended to this working paper. Whilst agreement was reached in the majority of instances, a few remain outstanding, specifically:

- a) Part 2;6.3.2.3.6 in respect of patient specimens;
- b) to add a provision in Part 8 to enable passengers to carry permeation devices;
- c) Special Provision A122 regarding nitrocellulose membrane filters; and

- d) whether to add a provision to Part 8 to enable passengers to carry animal specimens meeting Special Provision A180:

1.2 It is suggested that the issues above be discussed further by the ad-hoc working group during DGP/23.

APPENDICE A

PROPOSITION D'AMENDEMENT DES INSTRUCTIONS TECHNIQUES

1. Amender la disposition particulière A32 comme suit :

A32 Les générateurs de gaz pour sacs gonflables (...) qui ne peuvent être actionnés accidentellement, ne relèvent pas des présentes Instructions lorsqu'ils sont transportés comme fret. La mention « pas de restriction » (...)

2. Amender la disposition particulière A41 comme suit :

A41 Les dispositifs de pénétration (...) ne sont pas soumis aux présentes Instructions lorsqu'ils sont transportés comme fret, à condition que les prescriptions (...)

3. Amender le premier paragraphe de la disposition particulière A47 comme suit :

A47 (219) Les micro-organismes génétiquement modifiés (MOGM) (...) ne sont soumis à aucune autre prescription des présentes Instructions lorsqu'ils sont transportés comme fret.

4. Amender la disposition particulière A67 comme suit :

A67 Les accumulateurs inversables qui répondent aux prescriptions de l'instruction d'emballage 872 ne sont pas soumis aux présentes Instructions lorsqu'ils sont transportés comme fret si, à une température de 55 °C (...)

En plus d'amender la disposition particulière A67, il a été convenu que les exemptions de la Partie 8 à l'intention des passagers et des membres d'équipage devraient tenir compte des accumulateurs inversables répondant aux prescriptions de cette disposition particulière. Il est fait valoir qu'on réglerait la question en ajoutant au § 1.1.2 de la Partie 8, à la rubrique « Produits de consommation », le texte ci-après :

Avec l'approbation de l'exploitant ou des exploitants, accumulateurs inversables qui répondent aux prescriptions de la disposition particulière A67, autres que ceux mentionnés à l'alinéa e). Lorsqu'ils sont contenus dans un équipement, l'exploitant ou les exploitants doivent veiller à ce que l'équipement en question soit transporté de façon à éviter toute mise en marche accidentelle et à ce qu'il soit protégé contre tout dommage éventuel résultant du déplacement des bagages, de la poste, des provisions de bord ou d'autres marchandises :

Bien que ce texte rende compte des vues du groupe de travail ad hoc, le Groupe d'experts pourrait souhaiter imposer des restrictions supplémentaires (p. ex. une limitation des dimensions) relativement à ces accumulateurs, car le texte, tel qu'il est formulé, pourrait s'appliquer à de nombreux dispositifs qui ont déjà été pris en compte, puis exclus, par le libellé de l'alinéa e) du § 1.1.2 de la Partie 8.

5. Amender la disposition particulière A70 comme suit :

(...) Les moteurs à combustion interne à gaz inflammable ou les moteurs pile à combustible (...) ne sont pas soumis aux présentes Instructions lorsqu'ils sont transportés comme fret, à condition que (...)

6. Amender la disposition particulière A98 comme suit :

A98 Les aérosols, les cartouches de gaz et les récipients (...) ne sont pas soumis aux Instructions lorsqu'ils sont transportés comme fret, à moins que leur dégagement (...)

7. Amender la disposition particulière A114 comme suit :

A114 (283) Les objets contenant du gaz (...) ne sont pas soumis aux dispositions des présentes Instructions lorsqu'ils sont transportés comme fret, à condition que (...)

8. Amender la disposition particulière A129 comme suit :

A129 (252) Les solutions aqueuses de nitrate d'ammonium (...) ne sont pas soumises aux dispositions des présentes Instructions lorsqu'elles sont transportées comme fret, pour autant que le nitrate d'ammonium reste en solution dans toutes les conditions de transport.

9. Amender comme suit le § 5.1.1 de la Partie 3 :

5.1.1 Les quantités exemptées de marchandises dangereuses, autres que des objets, relevant de certaines classes qui satisfont aux dispositions du présent chapitre ne sont soumises à aucune autre disposition des présentes Instructions, à l'exception :

(...)

g) des prescriptions en matière de comptes rendus d'accident, d'incident ou d'autres événements concernant des marchandises dangereuses figurant aux sections 4.4 et 4.5 de la Partie 7-;

h) de l'interdiction de transport dans les bagages énoncée à la section 1.1 de la Partie 8.

10. Amender comme suit la Note suivant les dispositions relatives aux récipients cryogéniques fermés dans l'instruction d'emballage 202 :

Note.— Les emballages isolés qui contiennent de l'azote liquide réfrigéré entièrement absorbé dans un matériau poreux ne sont pas soumis aux dispositions des présentes Instructions lorsqu'ils sont transportés comme fret, s'ils répondent aux prescriptions de la disposition particulière A152.

En plus d'amender l'instruction d'emballage 202, il a été convenu que les exemptions de la Partie 8 à l'intention des passagers et des membres d'équipage devraient tenir compte des emballages isolés. Il est fait valoir qu'on réglerait la question en ajoutant au § 1.1.2 de la Partie 8, à la rubrique « Produits de consommation », le texte ci-après :

Emballages isolés contenant de l'azote liquide réfrigéré entièrement absorbé dans un matériau poreux s'ils répondent aux prescriptions de la disposition particulière A152 ;

11. Amender comme suit l'instruction d'emballage 953 :

Les masses magnétisées dont le champ magnétique cause une déviation de compas de plus de 2° à une distance de 2,1 m mais d'au plus 2° (...) ne sont pas soumises à d'autres prescriptions des présentes Instructions lorsqu'elles sont transportées comme fret, à l'exception des suivantes :

12. Amender comme suit le § 3.5.2.2 de la Partie 5 :

~~Les colis contenant des batteries au lithium qui répondent aux prescriptions de la Section II des emballées en conformité avec les instructions d'emballage 965 à 970 qui ne sont pas visées par des prescriptions supplémentaires figurant dans les présentes Instructions~~ doivent porter (...)

13. Amender comme suit la Note à la fin de la section 4.4 de la Partie 7 :

Note.— La présente disposition s'applique aussi aux incidents relatifs à des marchandises dangereuses qui ne sont pas visés par l'ensemble ou une partie des présentes Instructions techniques en vertu de l'application (...)

APPENDIX B

| Reference in TI | Text | Comments |
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| Part 3 Chapter 1 General | 1.3.1 A mixture or solution is <u>not subject to these Instructions</u> if the characteristics, properties, form or physical state of the mixture or solution are such that it does not meet the criteria, including human experience criteria, for inclusion in any class. | Classification – no action required |
| Chapter 2 Class 2 Gasses | 2.2.2 Gases of Division 2.2 are not subject to these Instructions if they are transported at a pressure less than 200 kPa at 20°C and are not liquefied or refrigerated liquefied gases. + 2.2.3 Gases of Division 2.2 <u>are not subject to these Instructions</u> when contained in the following: a) foodstuffs, including carbonated beverages (except UN 1950); b) balls intended for use in sports; c) tyres which meet the provisions of Special Provision A59; or d) light bulbs, provided they are packaged so that the projectile effects of any rupture of the bulb will be contained within the package. | Classification – no action required |
| 3. UN numbers and Proper shipping names | 3.7 A mixture or solution containing one or more substances identified by name in Table 3-1 or classified under an n.o.s. entry and one or more substances <u>not subject to these Instructions</u> is not subject to these Instructions if the hazard characteristics of the mixture or solution are such that they do not meet the criteria (including human experience criteria) for any class. | Classification – no action required |
| Chapter 6 6.3.2 Classification of infectious substances | 6.3.2.3.1 Substances which do not contain infectious substances or substances which are unlikely to cause disease in humans or animals <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another class | Classification – no action required |
| | 6.3.2.3.2 Substances containing micro-organisms which are non-pathogenic to humans or animals <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another class. | Classification – no action required |
| | 6.3.2.3.3 Substances in a form that any present pathogens have been neutralized or inactivated such that they no longer pose a health risk <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another class. | Classification – no action required |

| Reference in TI | Text | Comments |
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| | 6.3.2.3.4 Environmental samples (including food and water samples) which are not considered to pose a significant risk of infection <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another class. | Classification – no action required |
| | 6.3.2.3.5 Dried blood spots, collected by applying a drop of blood onto absorbent material, or faecal occult blood screening tests and blood or blood components that have been collected for the purposes of transfusion or for the preparation of blood products to be used for transfusion or transplantation and any tissues or organs intended for use in transplantation <u>are not subject to these Instructions</u> | Classification – no action required |
| 6.3.2 Classification of infectious substances, cont; | 6.3.2.3.6 Patient specimens for which there is minimal likelihood that pathogens are present <u>are not subject to these Instructions</u> if the specimen is transported in a packaging which will prevent any leakage and which is marked with the words “Exempt human specimen” or “Exempt animal specimen”, as appropriate. The packaging must meet the following conditions: a) The packaging must consist of three components: i) a leakproof primary receptacle(s); | Add “when carried as cargo” WG/11 decision – place in square brackets pending further discussion at DGP |
| 6.3.3 Biological products | 6.3.5.3 Decontaminated medical or clinical wastes that previously contained infectious substances <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another class. | Classification – no action required |
| Class 9 — Miscellaneous Dangerous Substance and Articles, including Environmentally Hazardous Substances 9.2 Assignment to class 9 | ≠ c) GMMOs or GMOs which do not meet the definition of toxic substances (see 6.2) or infectious substances (see 6.3) must be assigned to UN 3245. GMMOs or GMOs <u>are not subject to these Instructions</u> when authorized for use by the appropriate national authorities of the States of Origin, transit and destination. Genetically modified live animals must be transported under terms and conditions of the appropriate national authorities of the States of Origin and destination. | No action required? Appropriate national authorities can determine whether carriage in baggage is appropriate WG/11 decision – agreed |

| Reference in TI | Text | Comments |
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| <p>Table 3-2. Special provisions Acrylamide solution 3426 6.1 Adhesives containing flammable Liquid 1133 3 Air bag inflators † 0503 1.4G Air bag inflators † 3268 9 Air bag modules † 0503 1.4G A32 Air bag modules † 3268 9 Alcohols, n.o.s.* 1987 3 Alcohols, flammable, toxic, n.o.s.* 1986 3 6.1 Aldehydes, n.o.s.* 1989 3 Aldehydes, flammable, toxic, n.o.s.* 1988 3 6.1 Alkali metal alcoholates, self- heating, corrosive, n.o.s.* 3206 4.2 Alkaline earth metal alcoholates, n.o.s.* 3205 4.2 Alkaloid salts, liquid, n.o.s.* 3140 6.1 Alkaloid salts, solid, n.o.s.* 1544 6.1 Alkaloids, liquid, n.o.s.* 3140 6.1 Alkaloids, solid, n.o.s.* 1544 6.1 Alkylphenols, liquid, n.o.s. 3145 8 (including C2-C12 homologues) Alkylphenols, solid, n.o.s. 2430 8 (including C2-C12 homologues) Aluminium bromide solution 2580 8 Aluminium chloride solution 2581 8 Aluminium powder, coated † 1309 4.1 Aluminium powder, uncoated † 1396 4.3 Aluminium remelting by-products 3170 4.3 Aluminium smelting by-products 3170 4.3 Aluminium silicon powder, uncoated 1398 4.3 Amines, flammable, corrosive, n.o.s.* 2733 3 Amines, liquid, corrosive, n.o.s.* 2735 8 Amines, solid, corrosive, n.o.s.* 3259 8 Ammonium dinitro-o-cresolate solution 3424 6.1 Ammonium hydrogendifluoride solution 2817 8 Ammonium polysulphide solution 2818 8 Amylamine 1106 3 Antimony pentachloride solution 1731 8 Arsenical pesticide, liquid, toxic* 2994 6.1 Arsenical pesticide, liquid, toxic flammable*, flash point not less than 23°C 2993 6.1 Arsenic compound, liquid, n.o.s.*, 1556 6.1 inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides Arsenic compound, solid, n.o.s.*, 1557 6.1</p> | <p>A3 (223) If the chemical or physical properties of a substance covered by this description are such that, when tested, it does not meet the established defining criteria for the class or division listed in column 3, or any other class or division, <u>it is not subject to these Instructions.</u></p> | <p>Classification – no action required</p> |

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| inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides | | |
| <p>Table 3-2. Special provisions</p> <p>Barium chlorate solution 3405 5.1 6.1</p> <p>Barium compound, n.o.s.* 1564 6.1</p> <p>Barium perchlorate solution 3406 5.1 6.1</p> <p>Beryllium compound, n.o.s.* 1566 6.1</p> <p>Bipyridilium pesticide, liquid, toxic* 3016 6.1</p> <p>Bipyridilium pesticide, liquid, 3015 6.1 toxic, flammable*, flash point not less than 23°C</p> <p>Bipyridilium pesticide, solid, toxic* 2781 6.1</p> <p>Bisulphates, aqueous solution 2837 8</p> <p>– Bromates, inorganic, aqueous solution, n.o.s.* 3213 5.1</p> <p>Bromoacetic acid solution 1938 8</p> <p>Bromopropanes 2344 3</p> <p>Butanols 1120 3</p> <p>B Butyl nitrites 2351 3</p> <p>Butyl acetates 1123 3</p> <p># Cadmium compound* 2570 6.1</p> <p>Caesium hydroxide solution 2681 8</p> <p>Calcium chlorate, aqueous solution 2429 5.1</p> <p># Calcium hypochlorite, hydrated 2880 5.1 with not less than 5.5% but not more than 16% water</p> <p># Calcium hypochlorite, hydrated 2880 5.1 mixture with not less than 5.5% but not more than 16% water</p> <p>Calcium silicide 1405 4.3</p> <p>Carbamate pesticide, liquid, toxic* 2992 6.1</p> <p>Carbamate pesticide, liquid, toxic, 2991 6.1 flammable*, flash point not less than 23°C 3</p> <p>Carbamate pesticide, solid, toxic* 2757 6.1</p> <p>Carbon, animal or vegetable origin 1361 4.2</p> <p>Carbon, activated 1362 4.2</p> <p>Caustic alkali liquid, n.o.s.* 1719 8</p> <p>Celluloid, in blocks, rods, rolls, 2000 4.1 sheets, tubes, etc. (except scrap)</p> <p>Celluloid, scrap 2002 4.2</p> <p>Chlorate and borate mixture 1458 5.1</p> <p>Chlorate and magnesium chloride 1459 5.1 mixture, solid</p> <p>Chlorate and magnesium chloride 3407 5.1 mixture solution</p> <p>– Chlorates, inorganic, aqueous solution, n.o.s.* 3210 5.1</p> | A3 | |

| Reference in TI | Text | Comments |
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| <p>Chlorite solution 1908 8 Chlorocresols solution 2669 6.1 _ Chloropicrin mixture, n.o.s.* 1583 6.1 2-Chloropropionic acid 2511 8 4-Chloro-o-toluidine hydrochloride 3410 6.1 Solution Chromic acid solution 1755 8 Chromic fluoride solution 1757 8 Coal tar distillates, flammable 1136 3 Coating solution (includes surface 1139 3 treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining) † Copper based pesticide, liquid, 3010 6.1 Toxic Copper based pesticide, solid, 2775 6.1 toxic* Corrosive liquid, n.o.s.* 1760 8 Corrosive liquid, acidic, inorganic, 3264 8 n.o.s.* Corrosive liquid, acidic, organic, 3265 8 n.o.s.* Corrosive liquid, basic, inorganic, 3266 8 n.o.s.* Corrosive liquid, basic, organic, 3267 8 n.o.s.* Corrosive liquid, toxic, n.o.s.* 2922 8 6.1 Corrosive solid, n.o.s.* 1759 8 Corrosive solid, acidic, inorganic, 3260 8 n.o.s.* Corrosive solid, acidic, organic, 3261 8 n.o.s.* Corrosive solid, basic, inorganic, 3262 8 n.o.s.* Corrosive solid, basic, organic, 3263 8 n.o.s.* Corrosive solid, toxic, n.o.s.* 2923 8 6.1 Coumarin derivative pesticide, 3026 6.1 liquid, toxic* Coumarin derivative pesticide, 3025 6.1 liquid, toxic, flammable*, flash point not less than 23°C 3 Coumarin derivative pesticide, 3027 6.1 solid, toxic* Cupriethylenediamine solution 1761 8 6.1 Cyanides, inorganic, solid, n.o.s.* 1588 6.1 _ Cyanide solution, n.o.s.* 1935 6.1 Diacetone alcohol 1148 3 Dibromochloropropanes 2872 6.1 Dichloropropenes 2047 3 Diesel fuel 1202 3 Dimethyldioxanes 2707 3 Dinitrobenzenes, liquid 1597 6.1 Dinitrophenol solution 1599 6.1 Disinfectant, liquid, corrosive, n.o.s.*1903 8 Disinfectant, liquid, toxic, n.o.s.* 3142</p> | | |

| Reference in TI | Text | Comments |
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| <p>6.1 Disinfectant, solid, toxic, n.o.s.* 1601 6.1 Dye intermediate, liquid, 2801 8 corrosive, n.o.s.* † Dye intermediate, liquid, toxic, 1602 6.1 n.o.s.* † Dye intermediate, solid, corrosive, 3147 8 n.o.s.* † Dye intermediate, solid, toxic, 3143 6.1 n.o.s.* † Dye, liquid, corrosive, n.o.s.* 2801 8 Dye, liquid, toxic, n.o.s.* 1602 6.1 Dye, solid, corrosive, n.o.s.* 3147 8 Dye, solid, toxic, n.o.s.* 3143 6.1 Esters, n.o.s.* 3272 3 _ Ethanol 1170 3 Ethanolamine 2491 8 Ethanolamine solution 2491 8 _ Ethanol solution 1170 3 Ethers, n.o.s.* 3271 3 _ Ethyl alcohol 1170 3 _ Ethyl alcohol solution 1170 3 Extracts, aromatic, liquid † 1169 3 Extracts, flavouring, liquid † 1197 3 Ferric chloride solution 2582 8 Ferrosilicon with 30% or more but 1408 4.3 less than 90% silicon 6.1 Ferrous metal borings in a form 2793 4.2 liable to self-heating Ferrous metal cuttings in a form 2793 4.2 liable to self-heating Ferrous metal shavings in a form 2793 4.2 liable to self-heating Ferrous metal turnings in a form 2793 4.2 liable to self-heating Flammable liquid, n.o.s.* 1993 3 Flammable liquid, corrosive, 2924 3 n.o.s.* Flammable liquid, toxic, n.o.s.* 1992 3 6. Flammable liquid, toxic, corrosive, 3286 3 n.o.s.* 6.1 8 Flammable solid, corrosive, 3180 4.1 inorganic, n.o.s.* Flammable solid, corrosive, 2925 4.1 organic, n.o.s.* Flammable solid, inorganic, n.o.s.* 3178 4.1 Flammable solid, organic, n.o.s.* 1325 4.1 Flammable solid, organic, molten, 3176 4.1 n.o.s.* Flammable solid, oxidizing, n.o.s.* 3097 4.1 5.1 Flammable solid, toxic, inorganic, 3179 4.1 n.o.s.* Flammable solid, toxic, organic, 2926</p> | | |

| Reference in TI | Text | Comments |
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| <p>4.1 n.o.s.* Fuel, aviation, turbine engine 1863 3 Fusel oil 1201 3 Gas oil 1202 3 Hafnium powder, dry 2545 4.2 Hafnium powder, wetted with not 1326 4.1 less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns Heating oil, light 1202 3 Hexamethylenediamine solution 1783 8 _ Hydrazine, aqueous solution with 2030 8 more than 37% hydrazine by mass 6.1 Hydrazine, aqueous solution with 3293 6.1 not more than 37% hydrazine, by mass Hydriodic acid 1787 8 Hydrobromic acid, not more than 1788 8 49% strength Hydrocarbons, liquid, n.o.s. 3295 3 Hydrochloric acid 1789 8 Hydrogen difluorides, solid, n.o.s. 1740 8 Hypochlorite solution † 1791 8 Iron oxide, spent † (obtained from 1376 4.2 coal gas purification) Iron sponge, spent † (obtained from 1376 4.2 coal gas purification) Isocyanates, flammable, toxic, 2478 3 n.o.s.* † Isocyanate solution, flammable, 2478 3 toxic, n.o.s.* † 6.1 Isocyanate solution, toxic, 2206 6.1 n.o.s.* Isocyanates, toxic, n.o.s.* _ 2206 6.1 Ketones, liquid, n.o.s.* 1224 3 Lead perchlorate solution 3408 5.1 6.1 Lead phosphite, dibasic 2989 4.1 Lithium hydroxide solution 2679 8 _ Lithium hypochlorite, dry 1471 5.1 _ Lithium hypochlorite mixture 1471 5.1 Magnesium alloys powder 1418 4.3 4.2 Magnesium powder 1418 4.3 4.2 Maneb 2210 4.2 4.3 Maneb preparation with not less 2210 4.2 than 60% maneb 4.3 Maneb preparation, stabilized 2968 4.3 against self-heating Maneb stabilized against self- 2968 4.3 heating _ Medicine, liquid, flammable, toxic, 3248 3 n.o.s. 6.1 _ Medicine, liquid, toxic, n.o.s. 1851 6.1 _ Medicine, solid, toxic, n.o.s. 3249 6.1</p> | | |

| Reference in TI | Text | Comments |
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| <p> _ Mercaptan mixture, liquid, 3336 3 flammable, n.o.s.* Mercaptan mixture, liquid, 1228 3 flammable, toxic, n.o.s.* 6.1 _ Mercaptans, liquid, flammable, 3336 3 n.o.s.* Mercaptans, liquid, flammable, 1228 3 toxic, n.o.s.* Mercury based pesticide, liquid, 3012 6.1 toxic* Mercury based pesticide, liquid, 3011 6.1 toxic, flammable*, flash point not less than 23°C Mercury based pesticide, solid, 2777 6.1 toxic* _ Mercury compound, liquid, n.o.s.* 2024 6.1 _ Mercury compound, solid, n.o.s.* 2025 6.1 Metal carbonyls, liquid, n.o.s.* 3281 6.1 Metal carbonyls, solid, n.o.s.* 3466 6.1 _ Metal catalyst, dry* 2881 4.2 Metal hydrides, flammable, n.o.s.* 3182 4.1 Metallic substance, water-reactive, 3208 4.3 n.o.s.* Metallic substance, water-reactive, 3209 4.3 self-heating, n.o.s.*4.2 Metal powder, flammable, n.o.s. 3089 4.1 Metal powder, self-heating, n.o.s.* 3189 4.2 Metal salts of organic compounds, 3181 4.1 flammable, n.o.s. beta-Naphthylamine solution 3411 6.1 _ Nicotine compound, liquid, n.o.s.* 3144 6.1 _ Nicotine compound, solid, n.o.s.* 1655 6.1 Nicotine hydrochloride, liquid 1656 6.1 Nicotine hydrochloride solution 1656 6.1 _ Nicotine preparation, liquid, n.o.s.* 3144 6.1 _ Nicotine preparation, solid, n.o.s.* 1655 6.1 Nicotine sulphate, solid Nicotine sulphate solution 1658 6.1 Nitrates, inorganic, n.o.s. 1477 5.1 Nitrates, inorganic, aqueous 3218 5.1 solution, n.o.s. Nitriles, toxic, liquid, n.o.s.* 3276 6.1 Nitriles, toxic, solid, n.o.s.* 3439 6.1 _ Nitrites, inorganic, n.o.s.* 2627 5.1 _ Nitrites, inorganic, aqueous 3219 5.1 solution, n.o.s.* Nitrocellulose solution, flammable 2059 3 with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose Nitromethane 1261 3 </p> | | |

| Reference in TI | Text | Comments |
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| <p>Organic pigments, self-heating 3313 4.2 Organoarsenic compound, liquid, 3280 6.1 n.o.s.* Organoarsenic compound, solid, 3465 6.1 n.o.s.* Organochlorine pesticide, liquid, 2996 6.1 toxic Organochlorine pesticide, liquid, 2995 6.1 toxic, flammable*, flash point not less than 23°C Organochlorine pesticide, solid, 2761 6.1 toxic* Organometallic compound, toxic, 3282 6.1 liquid, n.o.s.* Organometallic compound, toxic, 3467 6.1 solid, n.o.s.* Organometallic substance, liquid, 3398 4.3 water reactive* Organometallic substance, liquid, 3399 4.3 water reactive, flammable* Organometallic substance, solid, 3400 4.2 self-heating* Organometallic substance, solid, 3395 4.3 water reactive* Organometallic substance, solid, 3396 4.3 water reactive, flammable* Organometallic substance, solid, 3397 4.3 water reactive, self-heating* 4.2 Organophosphorus compound, 3278 6.1 toxic, liquid, n.o.s.* Organophosphorus compound, 3464 6.1 toxic, solid, n.o.s.* Organophosphorus pesticide, 3018 6.1 liquid, toxic* Organophosphorus pesticide, 3017 6.1 liquid, toxic, flammable*, flash point not less than 23°C Organophosphorus pesticide, 2783 6.1 solid, toxic* Organotin compound, liquid, 2788 6.1 n.o.s.* Organotin compound, solid, 3146 6.1 n.o.s.* Organotin pesticide, liquid, toxic* 3020 6.1 Organotin pesticide, liquid, toxic, 3019 6.1 flammable*, flash point not less than 23°C Organotin pesticide, solid, toxic* 2786 6.1</p> | | |

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| <p>Oxidizing liquid, n.o.s.* 3139 5.1 Oxidizing liquid, corrosive, n.o.s.* 3098 5.1 8 Oxidizing liquid, toxic, n.o.s.* 3099 5.1 6.1 Oxidizing solid, n.o.s.* 1479 5.1 Oxidizing solid, corrosive, n.o.s.* 3085 5.1 8 Oxidizing solid, toxic, n.o.s.* 3087 5.1 6.1 Paint (including paint, lacquer, 1263 3 enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) Paint (including paint, lacquer, 3066 8 enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) Paint, flammable, corrosive 3469 3 (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) 8 Paint related material (including 1263 3 paint thinning or reducing compound) Paint related material (including 3066 8 paint thinning or reducing compound) Paint related material, flammable, corrosive, 3469 3 (including paint thinning or reducing compound) 8 Pentanols 1105 3 Perchlorates, inorganic, n.o.s. 1481 5.1 Perchlorates, inorganic, aqueous solution, n.o.s. _ Perfumery products with flammable 1266 3 solvents _ Permanganates, inorganic, n.o.s.* 1482 5.1 Peroxides, inorganic, n.o.s. 1483 5.1 Pesticide, liquid, toxic, n.o.s.* 2902 6.1 Pesticide, liquid, toxic, flammable, 2903 6.1 n.o.s.*, flash point not less than 23°C Pesticide, solid, toxic, n.o.s.* 2588 6.1 _ Petroleum crude oil 1267 3 Petroleum distillates, n.o.s. 1268 3 Petroleum products, n.o.s. 1268 3 Phenol solution 2821 6.1 Phenoxyacetic acid derivative pesticide, liquid, toxic* Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable*, flash point not less than 23°C Phenoxyacetic acid derivative pesticide, solid, toxic 3345 6.1 _ Phenylmercuric compound, n.o.s.* 2026 6.1 Phosphoric acid, solution 1805 8 Plastics moulding compound in 3314 9 dough, sheet or extruded rope form evolving flammable vapour Polyamines, flammable, corrosive, 2733 3 n.o.s. Polyamines, liquid, corrosive, 2735 8</p> | | |

| Reference in TI | Text | Comments |
|---|------|----------|
| <p>n.o.s. Polyamines, solid, corrosive, 3259 8 n.o.s.* Polymeric beads, expandable, 2211 9 evolving flammable vapour † Potassium chlorate, aqueous 2427 5.1 solution Potassium cyanide solution 3413 6.1 Potassium fluoride solution 3422 6.1 Potassium hydrogendifluoride 3421 8 Solution 6.1 Potassium hydroxide solution 1814 8 Printing ink, flammable 1210 3 Printing ink related material 1210 3 (including printing ink thinning or reducing compound), flammable n-Propanol 1274 3 Propyl alcohol, normal 1274 3 Pyrethroid pesticide, liquid, toxic* 3352 6.1 Pyrethroid pesticide, liquid, toxic, 3351 6.1 flammable*, flash point not less than 23°C Pyrethroid pesticide, solid, toxic* 3349 6.1 Resin solution, flammable 1866 3 Rosin oil 1286 3 Rubber scrap, powdered or 1345 4.1 granulated, not exceeding 840 microns and rubber content exceeding 45% Rubber shoddy, powdered or 1345 4.1 granulated, not exceeding 840 microns and rubber content exceeding 45% Rubber solution 1287 3 Rubidium hydroxide solution 2677 8 _ Selenium compound, liquid, 3440 6.1 n.o.s.* _ Selenium compound, solid, n.o.s.* 3283 6.1 Self-heating liquid, corrosive, 3188 4.2 inorganic, n.o.s.* Self-heating liquid, corrosive, 3185 4.2 organic, n.o.s.* Self-heating liquid, inorganic, 3186 4.2 n.o.s.* Self-heating liquid, organic, n.o.s.* 3183 4.2 Self-heating liquid, toxic, 3187 4.2 inorganic, n.o.s.* 6.1 Self-heating solid, corrosive, 3126 4.2 organic, n.o.s.* Self-heating solid, inorganic, 3190 4.2 n.o.s.* Self-heating solid, organic, n.o.s.* 3088 4.2 Self-heating solid, oxidizing, 3127 4.2 n.o.s.* Self-heating solid, toxic, 3191 4.2 inorganic, n.o.s.* 6.1 Self-heating solid, toxic, organic, 3128 4.2 n.o.s.* 6.1</p> | | |

| Reference in TI | Text | Comments |
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| <p>Shale oil 1288 3</p> <p>Sodium aluminate solution 1819 8</p> <p>Sodium arsenite, aqueous 1686 6.1 solution</p> <p>Sodium borohydride and sodium 3320 8 hydroxide solution, with not more than 12% sodium borohydride and not more than 40% sodium hydroxide, by mass</p> <p>Sodium chlorate, aqueous 2428 5.1 Solution</p> <p>Sodium cyanide solution 3414 6.1</p> <p>Sodium fluoride solution 3415 6.1</p> <p>Sodium hydroxide solution 1824 8</p> <p>Sodium methylate solution in 1289 3 Alcohol 8</p> <p>Substituted nitrophenol pesticide, 3014 6.1 liquid, toxic*</p> <p>Substituted nitrophenol pesticide, 3013 6.1 liquid, toxic, flammable*, flash point not less than 23°C</p> <p>Substituted nitrophenol pesticide, 2779 6.1 solid, toxic*</p> <p>_ Tars, liquid, including road oils, and 1999 3 cutback bitumens</p> <p>_ Tellurium compound, n.o.s.* 3284 6.1</p> <p>Tetramethylammonium hydroxide 1835 8 solution</p> <p>Thiocarbamate pesticide, liquid, 3006 6.1 toxic*</p> <p>Thiocarbamate pesticide, solid, 2771 6.1 toxic*</p> <p>Thiourea dioxide 3341 4.2</p> <p>Tinctures, medicinal 1293 3</p> <p>Titanium powder, dry 2546 4.2</p> <p>Titanium powder, wetted with not 1352 4.1 less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns</p> <p>Titanium sponge granules 2878 4.</p> <p>Titanium sponge powders 2878 4.1</p> <p>Corrosive liquid, acidic, inorganic, n.o.s.</p> <p>Titanium trichloride mixture 2869 8 A3</p> <p>2,4-Toluylenediamine solution 3418 6.1</p> <p>Toxic liquid, inorganic, n.o.s.* 3287 6.1</p> <p>Toxic liquid, organic, n.o.s.* 2810 6.1</p> <p>Toxic solid, inorganic, n.o.s.* 3288 6.1</p> <p>Toxic solid, organic, n.o.s.* 2811 6.1</p> <p>Toxins, extracted from living 3172 6.1 sources, liquid, n.o.s.*</p> <p>Toxins, extracted from living 3462 6.1 sources, solid, n.o.s.</p> <p>Triazine pesticide, liquid, toxic* 2998 6.1</p> <p>Triazine pesticide, liquid, toxic, 2997 6.1 flammable*, flash point not less than</p> | | |

| Reference in TI | Text | Comments |
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| <p>23°C 3 Triazine pesticide, solid, toxic* 2763 6.1 Trichloroacetic acid solution 2564 8 Triisopropyl borate 2616 3 Trimethylamine, aqueous solution, 1297 3 not more than 50% trimethylamine, by mass 8 Tripropylene 2057 3 Tris-(1-aziridinyl) phosphine oxide 2501 6.1 solution – Vanadium compound, n.o.s.* 3285 6.1 Water-reactive liquid, n.o.s.* 3148 4.3 Water-reactive liquid, corrosive, 3129 4.3 n.o.s.* – Water-reactive liquid, toxic, n.o.s.* 3130 4.3 6.1 Water-reactive solid, n.o.s.* 2813 4.3 A3 Water-reactive solid, corrosive, 3131 4.3 n.o.s.* 8 Water-reactive solid, flammable, 3132 4.3 n.o.s.* 4.1 Water-reactive solid, oxidizing, 3133 4.3 n.o.s.* 5.1 Water-reactive solid, self-heating, 3135 4.3 n.o.s.* 4.2 Water-reactive solid, toxic, n.o.s.* 3134 4.3 6.1 Wood preservatives, liquid 1306 3 Xanthates 3342 4.2 Xylenes 1307 3 Zinc ashes 1435 4.3 Zinc chloride solution 1840 8 Zinc dust 1436 4.3 4.2 Zinc powder 1436 4.3 4.2 Zirconium, dry, finished sheets, 2009 4.2 strip or coiled wire (thinner than 18 microns) Zirconium powder, dry 2008 4.2 Zirconium scrap 1932 4.2 A2 Zirconium suspended in a 1308 3 flammable liquid †</p> | | |
| <p>Alcoholic beverages containing 3065 3 more than 24% but not more than 70% alcohol by volume</p> | <p>A9 Alcoholic beverages containing not more than 70 per cent alcohol by volume, when packed in receptacles of 5 litres or less, <u>are not subject to these Instructions</u> when carried as cargo.</p> | <p>Already clarified that applies only “when carried as cargo”</p> |
| <p>Ferrosilicon with 30% or more but 1408 4.3 less than 90% silicon 6.1</p> | <p>A10 (39) This substance <u>is not subject to these Instructions</u> when it contains less than 30 per cent or not less than 90 per cent silicon</p> | <p>Classification – no action required</p> |

| Reference in TI | Text | Comments |
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| Table 3-2. Special provisions – cont; Polychlorinated biphenyls, liquid 2315 9 Polychlorinated biphenyls, solid 3432 9 Polyhalogenated biphenyls, liquid 3151 9 Polyhalogenated biphenyls, solid 3152 9 Polyhalogenated terphenyls, liquid 3151 9 Polyhalogenated terphenyls, solid 3152 9 | A11 (305) These substances <u>are not subject to these Instructions</u> when in concentrations of not more than 50 mg/kg. | Classification – no action required |
| # Antimony compound, inorganic, 3141 6.1 liquid, n.o.s. # Antimony compound, inorganic, 1549 6.1 solid, n.o.s.* | A12 (45) Antimony sulphides and oxides which contain not more than 0.5 per cent of arsenic calculated on the total mass <u>are not subject to these Instructions.</u> | Classification – no action required |
| Cyanides, inorganic, solid, n.o.s.* 1588 6.1 | A13 (47) Ferricyanides and ferrocyanides <u>are not subject to these Instructions</u> | Classification – no action required |
| Soda lime with more than 4% 1907 8 sodium hydroxide † | A16 (62) This substance <u>is not subject to these Instructions</u> when it does not contain more than 4 per cent sodium hydroxide | Classification – no action required |
| # Mercury compound, liquid, n.o.s.* 2024 6.1 # Mercury compound, solid, n.o.s.* 2025 6.1 | A18 (66) Mercurous chloride and cinnabar <u>are not subject to these Instructions.</u> | Classification – no action required |
| Dichloroisocyanuric acid, dry 2465 5.1 Dichloroisocyanuric acid salts 2465 5.1 | A28 (135) The dihydrated sodium salt of dichloroisocyanuric acid <u>is not subject to these Instructions.</u> | Classification – no action required |
| Bromobenzyl cyanides, liquid 1694 6.1 Bromobenzyl cyanides, solid 3449 6.1 | A29 (138) p-Bromobenzyl <u>cyanide is not subject to these Instructions.</u> | Classification – no action required |
| Seat-belt pretensioners † 0503 1.4G Seat-belt pretensioners † 3268 9 Air bag inflators † 0503 1.4G Air bag inflators † 3268 9 Air bag modules † 0503 1.4G Air bag modules † 3268 9 | A32 Air bag inflators, air bag modules or seat-belt pretensioners installed in conveyances or in completed conveyance components such as steering columns, door panels, seats, etc., which are not capable of inadvertent activation <u>are not subject to these Instructions.</u> The words “not restricted” and the special provision number A32 must be provided on the air waybill when an air waybill is issued. | <u>Add “when carried as cargo”</u> <u>WG/11 decision - Agreed</u> |

| Reference in TI | Text | Comments |
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| <p>Table 3-2. Special provisions – cont; Hafnium powder, wetted with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns 1326 4.1 Titanium powder, wetted with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns 1352 4.1 Zirconium powder, wetted with not less than 25% water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns 1358 4.1</p> | <p>A35 This substance <u>is not subject to these Instructions</u> when: — mechanically produced, particle size more than 53 microns; or — chemically produced, particle size more than 840 microns.</p> | <p>Classification – no action required</p> |
| | <p>A41 Permeation devices that contain dangerous goods and that are used for calibrating air quality monitoring devices <u>are not subject to these Instructions</u> provided the following requirements are met: a) Each device must be constructed of a material compatible with the dangerous goods it contains; b) The total contents of dangerous goods in each device is limited to 2 millilitres and the device must not be liquid full at 55°C; c) Each permeation device must be placed in a sealed, high impact-resistant, tubular inner packaging of plastic or equivalent material. Sufficient absorbent material must be contained in the inner packaging to completely absorb the contents of the device. The closure of the inner packaging must be securely held in place with wire, tape or other positive means; d) Each inner packaging must be contained in a secondary packaging constructed of metal, or plastic having a minimum thickness of 1.5 mm. The secondary packaging must be hermetically sealed; e) The secondary packaging must be securely packed in strong outer packaging. The completed package must be capable of withstanding, without breakage or leakage of any inner packaging and without significant reduction in effectiveness</p> | <p><u>Discussion required</u> <u>Add “when carried as cargo”, although consideration to be given to adding a provision in Part 8.</u></p> |

| Reference in TI | Text | Comments |
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| Table 3-2. Special provisions – cont; Ferrocium 1323 4.1 | A42 (249) Ferrocium (lighter flints), stabilized against corrosion, with a minimum iron content of 10 per cent <u>are not subject to these Instructions.</u> | Classification – no action required |
| Genetically modified micro- 3245 9 Organisms Genetically modified organisms 3245 9 | ≠ A47 (219) Genetically modified micro-organisms (GMMOs) and genetically modified organisms (GMOs) packed and marked in accordance with Packing Instruction 959 <u>are not subject to any other requirements in these Instructions.</u> | Add “when carried as cargo” |
| Solids containing toxic liquid, 3243 6.1 n.o.s.* | A50 Mixtures of solids which are not subject to these Instructions and toxic liquids may be transported under this entry without first applying the classification criteria of Division 6.1, providing there is no free liquid visible at the time the substance is packaged and the packaging must pass a leakproofness test at the Packing Group II level. This entry must not be used for solids containing a Packing Group I liquid. | Classification – no action required |
| Aluminium silicon powder, 1398 4.3 uncoated | A53 (37) This substance <u>is not subject to these Instructions</u> when coated | Classification – no action required |
| Silicon powder, amorphous 1346 4.1 | A54 (32) This substance <u>is not subject to these Instructions</u> when in any other form. | Classification – no action required |
| Seed cake with not more than 1.5% 2217 4.2 oil and not more than 11% moisture | A55 (142) Solvent extracted soya bean meal containing not more than 1.5 per cent oil and not more than 11 per cent moisture, which is substantially free of flammable solvent, <u>is not subject to these Instructions.</u> | Classification – no action required |
| Alcoholic beverages containing 3065 3 more than 24% but not more than 70% alcohol by volume _ Ethanol 1170 3 _ Ethanol solution 1170 3 _ Ethyl alcohol 1170 3 _ Ethyl alcohol solution 1170 3 | A58 (144) An aqueous solution containing not more than 24 per cent alcohol by volume <u>is not subject to these Instructions.</u> | Classification – no action required |
| Tire assemblies inflated, _ 2.2 unserviceable, damaged or above maximum rated pressure | A59 A tire assembly unserviceable or damaged is not subject to these Instructions if the tire is completely deflated. A tire assembly with a serviceable tire is <u>not subject to these Instructions</u> provided the tire is not inflated to a gauge pressure exceeding the maximum rated pressure for that tire. However, such tires (including valve assemblies) must be protected from damage during transport, which may require the use of a protective cover. | Add “When carried as cargo” WG/11 decision – No action required. |

| Reference in TI | Text | Comments |
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| Table 3-2. Special provisions – cont; Azodicarbonamide 3242 4.1 | A60 (215) This entry only applies to the technically pure substance or to formulations derived from it having an SADT higher than 75°C and therefore does not apply to formulations which are self-reactive substances. (For self reactive substances, see 2;4.2.3. Table 2-6). Homogeneous mixtures containing not more than 35 per cent by mass of azocarbonamide and at least 65 per cent of inert substance are <u>not subject to these Instructions</u> unless criteria of other classes or divisions are met | Classification – no action required |
| Blue asbestos (crocidolite) † 2212 9 Brown asbestos (amosite, 2212 9 mysorite) † White asbestos (chrysotile, 2590 9 actinolite, anthophyllite, tremolite) † | A61 (168) Asbestos which is immersed or fixed in a natural or artificial binder (such as cement, plastics, asphalt, resins or mineral ore) in such a way that no escape of hazardous quantities of respirable asbestos fibres can occur during transport is <u>not subject to these Instructions</u> . Manufactured articles, containing asbestos and not meeting this requirement, are nevertheless not subject to these Instructions, when packed so that no escape of hazardous quantities of respirable asbestos fibres can occur during transport. | Classification – no action required |
| # Batteries, wet, non-spillable, 2800 8 electric storage # Battery-powered equipment 3171 9 Battery-powered vehicle 3171 9 + Engine, fuel cell, flammable gas 3166 9 powered + Engine, fuel cell, flammable liquid 3166 9 powered # Engine, internal combustion, 3166 9 flammable gas powered # Engine, internal combustion, 3166 9 flammable liquid powered Vehicle, flammable gas powered 3166 9 Vehicle, flammable liquid powered 3166 9 + Vehicle, fuel cell, flammable gas 3166 9 powered + Vehicle, fuel cell, flammable liquid powered 3166 | A67 Non-spillable batteries meeting the requirements of Packing Instruction 872 are <u>not subject to these Instructions</u> if, at a temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case. The battery must not contain any free or unabsorbed liquid. Any electrical battery or battery powered device, equipment or vehicle having the potential of dangerous evolution of heat must be prepared for transport so as to prevent: a) a short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and b) unintentional activation. The words “not restricted” and the special provision number A67 must be provided on the air waybill when an air waybill is issued. | Add “when carried as cargo” <u>WG/11 decision – agreed but also need to add a provision to Part 8.</u> |

| Reference in TI | Text | Comments |
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| <p>Argon, compressed 1006 2.2</p> <p>Gallium † 2803 8</p> <p>Helium, compressed 1046 2.2</p> <p>Krypton, compressed 1056 2.2</p> <p>Mercury contained in manufactured 2809 8 Articles</p> <p>Neon, compressed 1065 2.2</p> <p>Nitrogen, compressed 1066 2.2</p> <p>Xenon 2036 2.2</p> | <p>A69 Articles, each containing not more than 100 mg of mercury, gallium or inert gas and packaged so that the quantity of mercury, gallium or inert gas per package does not exceed 1 g, <u>are not subject to these Instructions</u> when carried as cargo. The words “not restricted” and the special provision number A69 must be provided on the air waybill when an air waybill is issued.</p> | <p>No action required – reference already made to “when carried as cargo”</p> |
| <p>Table 3-2. Special provisions – cont;</p> <p>+ Engine, fuel cell, flammable gas 3166 9 powered _</p> <p>+ Engine, fuel cell, flammable liquid 3166 9 powered _</p> <p># Engine, internal combustion, 3166 9 flammable gas powered</p> <p># Engine, internal combustion, 3166 9 flammable liquid powered</p> <p>Vehicle, flammable gas powered 3166 9</p> <p>Vehicle, flammable liquid powered 3166 9</p> <p>+ Vehicle, fuel cell, flammable gas 3166 9 powered _</p> <p>+ Vehicle, fuel cell, flammable liquid 3166 9 powered _</p> | <p>A70 Flammable liquid powered internal combustion engines being shipped either separately or incorporated into a vehicle, machine or other apparatus, without batteries or other dangerous goods, are not subject to these Instructions provided that</p> <ol style="list-style-type: none"> 1. the engine is powered by a fuel that does not meet the classification criteria for any class or division; or 2. the fuel tank of the vehicle, machine or other apparatus has never contained any fuel or the fuel tank has been flushed and purged of vapours and adequate measures have been taken to nullify the hazard; and 3. the entire fuel system of the engine has no free liquid and all fuel lines are sealed or capped or securely connected to the engine and vehicle, machinery or apparatus. <p>Flammable gas powered internal combustion or fuel cell engines being shipped without batteries or other dangerous goods either separately or incorporated into a vehicle, machine or other apparatus that have contained fuel are not subject to these Instructions when carried as cargo provided that:</p> <ol style="list-style-type: none"> 1. the entire fuel system has been flushed, purged and filled with a non-flammable gas or fluid to | <p>Add “when carried as cargo”</p> <p>WH/11 decision – agreed, but add only at “...nullify the hazard are not subject to these Instructions when carried as cargo provided that:”</p> <p>Note: proposed text takes account of decision taken on WG/11-WP/16</p> |

| Reference in TI | Text | Comments |
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| | <p>nullify the Hazard;</p> <ol style="list-style-type: none"><li data-bbox="553 365 1040 485">2. the final pressure of the non-flammable gas used to fill the system does not exceed 200kPa at 20°C;<li data-bbox="553 520 1040 579">3. the shipper has made prior arrangements with the operator;<li data-bbox="553 615 1040 852">4. the shipper has provided the operator with written or electronic documentation stating that the flushing, purging and filling procedure has been followed and that the final contents of the engine(s) have been tested and verified to be non-flammable. <p>Multiple engines may be shipped in a unit load device or other type of pallet provided that the shipper has made prior arrangements with the operator(s) for each shipment.</p> | |

| Reference in TI | Text | Comments |
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| Calcium cyanamide with more than 1403 4.3 0.1% of calcium carbide | A71 (38) This substance <u>is not subject to these Instructions</u> when it contains not more than 0.1 per cent calcium carbide. | Classification – no action required |
| Nitrocellulose membrane filters 3270 4.1 with not more than 12.6% nitrogen, by dry mass | A73 (237) The membrane filters, including paper separators, coating, or backing materials, etc., that are present in transport, must not be liable to propagate a detonation as tested by one of the tests described in the <i>UN Manual of Tests and Criteria</i> , Part I, Test Series 1(a). In addition, the appropriate authority may determine, on the basis of the results of suitable burning rate tests taking account of the standard tests in the <i>UN Manual of Tests and Criteria</i> , Part III, subsection 33.2.1, that nitrocellulose membrane filters in the form in which they are to be transported <u>are not subject to the provisions of these Instructions</u> applicable to flammable solids in Division 4.1. | Classification – no action required |
| Phthalic anhydride with more than 2214 8 0.05% of maleic anhydride Tetrahydrophthalic anhydrides 2698 8 with more than 0.05% of maleic anhydride | A74 (169) Phthalic anhydride in the solid state and tetrahydrophthalic anhydrides, with not more than 0.05 per cent maleic anhydride, <u>are not subject to these Instructions</u> . Phthalic anhydride molten at a temperature above its flash point, with not more than 0.05 per cent maleic anhydride, must be classified under UN 3256 | Classification – no action required |
| Solids containing corrosive liquid, 3244 8 n.o.s.* | A77 Mixtures of solids which <u>are not subject to these Instructions</u> and corrosive liquids may be transported under this entry without first applying the classification criteria of Class 8, providing there is no free liquid visible at the time the substance is packaged and the packaging must pass a leakproofness test at the Packing Group II level | Classification – no action required |
| _ Barium compound, n.o.s.* | A82 (177) Barium sulphate <u>is not subject to these Instructions</u> | Classification – no action required |
| Calcium nitrate 1454 5.1 | A83 (208) The commercial grade of calcium nitrate fertilizer, when consisting mainly of a double salt (calcium nitrate and ammonium nitrate) containing not more than 10 per cent ammonium nitrate and at least 12 per cent water of crystallization, <u>is not subject to these Instructions</u> . | Classification – no action required |

| Reference in TI | Text | Comments |
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| <p>Table 3-2. Special provisions – cont; Nitrocellulose, with not more than 2557 4.1 12.6% nitrogen, by dry mass, mixture without plasticizer, without pigment</p> <p>Nitrocellulose, with not more than 2557 4.1 12.6% nitrogen, by dry mass, mixture without plasticizer, without pigment</p> <p>Nitrocellulose, with not more than 2557 4.1 12.6% nitrogen, by dry mass, mixture with plasticizer, without pigment</p> <p>Nitrocellulose, with not more than 2557 4.1 12.6% nitrogen, by dry mass, mixture with plasticizer, with pigment</p> | <p>A86 (241) The formulation must be prepared so that it remains homogeneous and does not separate during transport. Formulations with low nitrocellulose contents <u>are not subject to these Instructions</u> provided that</p> <p>1) they do not exhibit dangerous properties when tested for their liability to detonate, deflagrate or explode when heated under defined confinement by tests of test series 1(a), 2(b) and 2(c) respectively in the <i>UN Manual of Tests and Criteria</i> and</p> <p>2) they are not flammable solids when tested in accordance with test N1 in the <i>UN Manual of Tests and Criteria</i>, Part III, subsection 3.3.2.1.4 (chips, if necessary, crushed and sieved to a particle size of less than 1.25 mm).</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision - Classification – no action required</p> |
| <p>Vehicle, flammable gas powered 3166 Vehicle, flammable liquid powered 3166 9</p> <p>+ Vehicle, fuel cell, flammable gas 3166 9 powered _</p> <p>+ Vehicle, fuel cell, flammable liquid 3166 9 powered _</p> <p># Battery-powered equipment 3171 9 # Battery-powered vehicle 3171 9</p> | <p>A87 Articles which are not fully enclosed by packaging, crates or other means that prevent ready identification <u>are not subject to the marking requirements</u> of 5;2 or the labelling requirements of 5;3.</p> | <p>No action required</p> |
| <p>Ammonium nitrate fertilizers 2071 9</p> | <p>A90 (193) This entry may only be used for uniform ammonium nitrate based fertilizer mixtures of the nitrogen, phosphate or potash type, containing not more than 70 per cent ammonium nitrate and not more than 0.4 per cent total combustible/organic material calculated as carbon or with not more than 45 per cent ammonium nitrate and unrestricted combustible material. Fertilizers within these composition limits <u>are not subject to these Instructions</u> if shown by a Trough Test (see <i>UN Manual of Tests and Criteria</i>, Part III, subsection 38.2) not to be liable to self-sustaining decomposition.</p> | <p>Classification – no action required</p> |

| Reference in TI | Text | Comments |
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| Table 3-2. Special provisions – cont; # Lead compound, soluble, n.o.s.* 2291 6.1 | A92 (199) Lead compounds which, when mixed in a ratio of 1:1000 with 0.07 M hydrochloric acid and stirred for 1 hour at a temperature of 23°C ±2°C, exhibit a solubility of 5 per cent or less (see ISO 3711:1990 “ <i>Lead chromate pigments and lead chromate-molybdate pigments — Specifications and methods of test</i> ”) are considered insoluble and <u>are not subject to these Instructions</u> unless they meet the criteria for inclusion in another hazard class or division. | Classification – no action required |
| | A93 A heat-producing article <u>is not subject to these Instructions</u> when the heat-producing component or the energy source is removed to prevent unintentional functioning during transport. The words “not restricted” and the special provision number A93 must be provided on the air waybill when an air waybill is issued. | Classification – no action required (WG/11) |
| # Gas cartridges (non-flammable) 2037 2.2 without a release device, nonrefillable # Receptacles, small, containing 2037 2.2 gas (non-flammable) without a release device, non-refillable # Aerosols, non-flammable 1950 2.2 | A98 Aerosols, gas cartridges and receptacles, small, containing gas with a capacity not exceeding 50 ml, containing no constituents subject to these Instructions other than a Division 2.2 gas, <u>are not subject to these Instructions</u> unless their release could cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of assigned duties. The words “not restricted” and the special provision number A98 must be provided on the air waybill when an air waybill is issued. | <u>Discussion required</u> <u>WG/11 decision - Add “when carried as cargo”</u> |
| | A105 (242) Sulphur <u>is not subject to these Instructions</u> when it has been formed to a specific shape (e.g. prills, granules, pellets, pastilles or flakes). | Classification – no action required |
| Isosorbide-5-mononitrate 3251 4.1 | A110 (226) Formulations of these substances containing not less than 30 per cent non-volatile, non-flammable phlegmatizer <u>are not subject to these Instructions</u> | Classification – no action required |

| Reference in TI | Text | Comments |
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| <p>Table 3-2. Special provisions – cont;</p> <p>Articles, pressurized, hydraulic 3164 2.2 containing non-flammable gas</p> <p>Articles, pressurized, pneumatic 3164 2.2 containing non-flammable gas</p> | <p>A114 (283) Articles, containing gas, intended to function as shock absorbers, including impact energy absorbing devices, or pneumatic springs are not subject to <u>these Instructions</u> provided:</p> <p>a) each article has a gas space capacity not exceeding 1.6 litres and a charge pressure not exceeding 280 bar where the product of the capacity (litres) and charge pressure (bars) does not exceed 80 (i.e. 0.5 litre gas space and 160 bar charge pressure, 1 litre gas space and 80 bar charge pressure, 1.6 litre gas space and 50 bar charge pressure, 0.28 litre gas space and 280 bar charge pressure);</p> <p>b) each article has a minimum burst pressure of 4 times the charge pressure at 20°C for products not exceeding 0.5 litre gas space capacity and 5 times charge pressure for products greater than 0.5 litre gas space capacity;</p> <p>c) each article is manufactured from material which will not fragment upon rupture;</p> <p>d) each article is manufactured in accordance with a quality assurance standard acceptable to the appropriate national authority; and</p> <p>e) the design type has been subjected to a fire test demonstrating that pressure in the article is relieved by means of a fire-degradable seal or other pressure-relief device such that the article will not fragment and the article does not rocket.</p> | <p><u>Discussion required</u></p> <p><u>WG/11 decision - Add “when carried as cargo”</u></p> |
| <p>Nitrocellulose membrane filters 3270 4.1 with not more than 12.6% nitrogen, by dry mass</p> | <p>A122 (286) Nitrocellulose membrane filters covered by this entry, each with a mass not exceeding 0.5 g, <u>are not subject to these Instructions</u> when contained individually in an article or a sealed packet.</p> | <p><u>[Discussion required]</u></p> |
| <p>Ammonium nitrate, liquid (hot 2426 5.1 concentrated solution)</p> | <p>A129 (252) Provided the ammonium nitrate remains in solution under all conditions of transport, aqueous solutions of ammonium nitrate, with not more than 0.2 per cent combustible material, in a concentration not exceeding 80 per cent <u>are not subject to these Instructions.</u></p> | <p><u>Add “when carried as cargo”</u></p> <p>WG/11 decision - agreed</p> |

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| <p>Nitrogen, refrigerated liquid 1977 2.2</p> | <p>≠ A152 Insulated packagings conforming to the requirements of Packing Instruction 202 containing refrigerated liquid nitrogen fully absorbed in a porous material are <u>not subject to these Instructions</u> provided the design of the insulated packaging would not allow the build-up of pressure within the container and would not permit the release of any refrigerated liquid nitrogen irrespective of the orientation of the insulated packaging and any outer packaging or overpack used is closed in a way that will not allow the build-up of pressure within that packaging or overpack. When used to contain substances <u>not subject to these Instructions</u>, the words “not restricted” and the special provision number A152 must be provided on the air waybill when an air waybill is issued.</p> | <p><u>Add “when carried as cargo”</u></p> <p><u>WG/11 decision - No action required</u></p> |
| <p>Magnesium nitrate 1474 5.1</p> | <p>A155 (332) Magnesium nitrate hexahydrate is not subject to these Instructions.</p> | <p>Classification – no action required</p> |
| <p>Environmentally hazardous 3082 9 substance, liquid, n.o.s.*</p> <p># Environmentally hazardous 3077 9 substance, solid, n.o.s.*</p> | <p>A158 (335) Mixtures of solids which <u>are not subject to these Instructions</u> and liquids or solids classified by the shipper as environmentally hazardous substances (UN 3077 and 3082) (see Special Provision A97) may be transported under this entry, provided there is no free liquid visible at the time the substance is loaded or at the time the packaging is closed. Sealed packets and articles containing less than 10 mL of an environmentally hazardous liquid, absorbed into a solid material but with no free liquid in the packet or article, or containing less than 10 g of an environmentally hazardous solid, are not subject to these Instructions</p> | <p><u>Discussion required (on second reference)</u></p> <p><u>WG/11 decision – no action required.</u></p> |
| <p># Security type equipment – FORBIDDEN</p> | <p>+ A178 Security type equipment such as attaché cases, cash boxes, cash bags, etc., incorporating dangerous goods, for example lithium batteries, gas cartridges and/or pyrotechnic material, <u>are not subject to these Instructions</u> if the equipment complies with the following:</p> <p>a) The equipment must be equipped with an effective means of preventing accidental activation;</p> <p>b) If the equipment contains an explosive or pyrotechnic substance or an explosive article, this article or substance must be excluded from Class 1 by the appropriate national authority of the State of Manufacture in compliance with Part 2;1.5.2.1;</p> | <p>No action required, aligns with passenger/crew provisions of Part 8</p> |

| Reference in TI | Text | Comments |
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| <p>Table 3-2. Special provisions – cont;</p> <p># Alcohols, n.o.s.* 1987 3</p> <p># Ethanol 1170 3</p> <p># Ethanol solution 1170 3</p> <p># Ethyl alcohol 1170 3</p> <p># Ethyl alcohol solution 1170 3</p> <p># Formaldehyde solution, flammable 1198 3 8</p> <p># Isopropanol 1219 3</p> <p># Isopropyl alcohol 1219 3</p> | <p>+ A180 Non-infectious specimens, such as specimens of mammals, birds, amphibians, reptiles, fish, insects and other invertebrates containing small quantities of UN 1170, UN 1198, UN 1987 or UN 1219 <u>are not subject to these Instructions</u> provided the following packing and marking requirements are met: a) specimens are:</p> <p>1) wrapped in paper towel and/or cheesecloth moistened with alcohol or an alcohol solution and then placed in a plastic bag that is heat-sealed. Any free liquid in the bag must not exceed 30 mL; or</p> <p>2) placed in vials or other rigid containers with no more than 30 mL of alcohol or an alcohol solution;</p> <p>b) the prepared specimens are then placed in a plastic bag that is then heat-sealed;</p> <p>c) the bagged specimens are then placed inside a another plastic bag with absorbent material then heatsealed;</p> <p>d) the finished bag is then placed in a strong outer packaging with suitable cushioning material;</p> <p>e) the total quantity of flammable liquid per outer packaging must not exceed 1 L; and</p> <p>f) the completed package is marked “scientific research specimens, not restricted Special Provision A180 applies”. The words “not restricted” and the special provision number A180 must be provided on the air waybill when an air waybill is issued.</p> | <p><u>Discussion required</u></p> <p>WG/11 decision – no action required, although consideration to be given to add similar text to Part 8.</p> |

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| 5.1 EXCEPTED QUANTITIES | <p>≠ 5.1.1 Excepted quantities of dangerous goods of certain classes, other than articles, meeting the provisions of this chapter <u>are not subject to any other provisions</u> of these Instructions except for:</p> <p>a) the prohibition in post in 1;2.3; b) the definitions in 1;3; c) the training requirements in 1;4; d) the classification procedures and packing group criteria in Part 2; e) the packaging requirements of 4;1.1.1, 4;1.1.3.1, 4;1.1.5, 4;1.1.6, 4;1.1.7 and 4;1.1.8 (4;1.1.6 does not apply to UN 3082); f) the loading restriction in 7;2.1; and g) the reporting requirements of dangerous goods accidents, incidents and other occurrences in 7;4.4 and 7;4.5.</p> <p><i>Note.— In the case of radioactive material, the requirements for radioactive material in excepted packages in 1;6.1.5 apply.</i></p> | <p>Perhaps add a new h) “the prohibition of dangerous goods in baggage in 8;1,1</p> <p>WG/11 decision – agreed to add a new h) “the prohibition of dangerous goods in baggage in 8;1,1</p> |
| Packing Instruction 202 This instruction applies to Class 2 refrigerated liquefied gases in open and closed cryogenic receptacles. | <p><i>Note.— Insulated packagings containing refrigerated liquid nitrogen fully absorbed in a porous material <u>are not subject to these Instructions</u> provided they meet the requirements of Special Provision A152.</i></p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – agreed to add “when carried as cargo” and also a provision in Part 8.</p> |
| Packing Instruction 492 Passenger and cargo aircraft for UN 3292 only | <p>Batteries may be offered for transport and transported unpacked or in protective enclosures such as fully enclosed or wooden slatted crates that <u>are not subject to the requirements</u> of Part 6 of these Instructions.</p> | <p>Discussion required</p> <p>WG/11 decision – no action required.</p> |
| Packing Instruction 620 This packing instruction applies to UN 2814 and UN 2900. | <p>f) Other dangerous goods must not be packed in the same packaging as Division 6.2 infectious substances unless they are necessary for maintaining the viability, stabilizing or preventing degradation or neutralizing the hazards of the infectious substances. A quantity of 30 ml or less of dangerous goods included in Class 3, 8 or 9 may be packed in each primary receptacle containing infectious substances provided these substances meet the requirements of 3;5. These small quantities of dangerous goods of Class 3, 8 or 9 <u>are not subject to any additional requirements of these Instructions</u> when packed in accordance with this packing instruction.</p> | <p>No action required because 6.2 substances not permitted in baggage.</p> |

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| <p>Packing Instruction 650 This packing instruction applies to UN 3373.</p> | <p>11) Infectious substances assigned to UN 3373 which are packed and marked in accordance with this packing instruction <u>are not subject to any other requirement in these Instructions</u> except for the following:</p> <p>a) the name and address of the shipper and of the consignee must be provided on each package;</p> <p>b) the name and telephone number of a person responsible must be provided on a written document (such as an air waybill) or on the package;</p> <p>c) classification must be in accordance with 2;6.3.2;</p> <p>d) the incident reporting requirements in 7;4.4 must be met;</p> <p>e) the inspection for damage or leakage requirements in 7;3.1.3 and 7;3.1.4; and</p> <p>f) passengers and crew members are prohibited from transporting infectious substances either as, or in, carry-on baggage or checked baggage or on their person.</p> <p><i>Note.— When the shipper or consignee is also the “person responsible” as referred to in b), the name and address need be marked only once in order to satisfy the name and marking provisions in both a) and b).</i></p> | <p>No action required as carriage in baggage addressed by f)</p> |
| <p>Packing Instruction 953 Passenger and cargo aircraft for UN 2807 only</p> | <p>Magnetized materials with field strengths causing a compass deflection of more than 2 degrees at a distance of 2.1 m but not more than 2 degrees at a distance of 4.6 m (equivalent to 0.418 A/m or 0.00525 Gauss measured at a distance of 4.6 m) <u>are not subject to any other requirements</u> in these Instructions except for the following:</p> <p>a) the shipper must make prior arrangements with the operator identifying the magnetized material. The dangerous goods transport document requirements of Part 5;4 are not applicable provided alternative written or electronic documentation includes the words “magnetized material” in association with the description of the goods;</p> <p>b) the package must bear the magnetized material handling label;</p> <p>c) the operator must stow the packaged magnetized material in accordance with 7;2.10; and</p> <p>d) the incident reporting requirements of 7;4.4 must be met.</p> | <p>Add “when carried as cargo”</p> |

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| <p>Packing Instruction 959 Passenger and cargo aircraft for UN 3245 only</p> | <p>GMOs or GMMOs assigned to UN 3245 which are packed and marked in accordance with this packing instruction are not subject to any other requirement in <u>these Instructions</u> except for the following:</p> <ol style="list-style-type: none"> 1) the name and address of the shipper and of the consignee must be provided on each package; 2) classification must be in accordance with 2;9.2.1 c); 3) the incident reporting requirements in 7;4.4 must be met; 4) the inspection for damage or leakage requirements in 7;3.1.3 and 7;3.1.4; 5) passengers and crew members are prohibited from transporting UN 3245 either as, or in, carry-on baggage or checked baggage or on their person. <p>ADDITIONAL PACKING REQUIREMENTS</p> <p>— When dry ice or liquid nitrogen is used, all applicable requirements of these Instructions must be met. When used, ice or dry ice must be placed outside the secondary packagings or in the outer packaging or an overpack. Interior supports must be provided to secure the secondary packagings in the original position after the ice or dry ice has dissipated. If ice is used, the outside packaging or overpack must be leakproof. If dry ice is used, the requirements in Packing Instruction 954 must be met.</p> <p>— The primary receptacle and the secondary packaging must maintain their integrity at the temperature of the refrigerant used as well as the temperatures and the pressures which could result if refrigeration were lost.</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required</p> |

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| <p>Packing Instruction 965 Passenger and cargo aircraft for UN 3480 This entry applies to lithium ion or lithium polymer batteries.</p> | <p>Section I of this packing instruction applies to lithium ion and lithium polymer cells and batteries that are assigned to Class 9. Certain lithium ion and lithium polymer cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraphs above, are not subject to other additional requirements of these Instructions.</p> <p>SECTION I</p> <p>Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must:</p> <p>1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and</p> <p><i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i></p> <p>2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses).</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| <p>Packing Instruction 965 cont; Passenger and cargo aircraft for UN 3480 This entry applies to lithium ion or lithium polymer batteries.</p> | <p>SECTION II Lithium ion cells and batteries offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section. Lithium ion cells and batteries may be offered for transport if they meet the following:</p> <ol style="list-style-type: none"> 1) for lithium ion cells, the Watt-hour rating (see the Glossary of Terms in Attachment 2) is not more than 20 Wh; 2) for lithium ion batteries, the Watt-hour rating is not more than 100 Wh; — the Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009; 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <p><i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i></p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |
| <p>Packing Instruction 966 Passenger and cargo aircraft for UN 3481 (packed with equipment) only This entry applies to lithium ion or lithium polymer batteries packed with equipment.</p> | <p>Section I of this packing instruction applies to lithium ion and lithium polymer cells and batteries that are assigned to Class 9. Certain lithium ion and lithium polymer cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraph above, are not subject to other additional requirements of these Instructions.</p> <p>SECTION I Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must:</p> <ol style="list-style-type: none"> 1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> 2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| <p>Packing Instruction 966 cont; Passenger and cargo aircraft for UN 3481 (packed with equipment) only This entry applies to lithium ion or lithium polymer batteries packed with equipment.</p> | <p>SECTION II Lithium ion cells and batteries packed with equipment offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section. Lithium ion cells and batteries may be offered for transport if they meet the following: 1) for lithium ion cells, the Watt-hour rating (see the Glossary of Terms in Attachment 2) is not more than 20 Wh; 2) for lithium ion batteries, the Watt-hour rating is not more than 100 Wh; — the Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009; 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <i>Note.— Batteries</i></p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |
| <p>Packing Instruction 967 Passenger and cargo aircraft for UN 3481 (contained in equipment) only This entry applies to lithium ion or lithium polymer batteries contained in equipment.</p> | <p>Section I of this packing instruction applies to lithium ion and lithium polymer cells and batteries that are assigned to Class 9. Certain lithium ion and lithium polymer cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraph above, are not subject to other additional requirements of these Instructions. SECTION I Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must: 1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> 2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses).</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| <p>Packing Instruction 967 cont; Passenger and cargo aircraft for UN 3481 (contained in equipment) only This entry applies to lithium ion or lithium polymer batteries contained in equipment.</p> | <p>SECTION II Lithium ion cells and batteries contained in equipment offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section. Lithium ion cells and batteries may be offered for transport if they meet the following: 1) for lithium ion cells ,the Watt-hour rating (see the Glossary of Terms in Attachment 2) is not more than 20 Wh; 2) for lithium ion batteries, the Watt-hour rating is not more than 100 Wh; — the Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009; 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> Devices such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not capable of generating a dangerous evolution of heat, may be transported when intentionally active. When active, these devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems. General requirements Equipment must be packed in strong outer packagings that conform to Part 4;1.1.1, 1.1.3.1 and 1.1.10 (except 1.1.10.1). ADDITIONAL PACKING REQUIREMENTS</p> | <p>Add “when carried as cargo” WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| <p>Packing Instruction 968 Passenger and cargo aircraft for UN 3090 Passenger and cargo aircraft for UN 3090 This entry applies to lithium metal or lithium alloy batteries in Class 9 (Section I) and lithium metal or lithium alloy batteries subject to specific requirements of these Instructions (Section II).</p> | <p>Section I of this packing instruction applies to lithium metal and lithium alloy cells and batteries that are assigned to Class 9. Certain lithium metal and lithium alloy cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraphs above, are not subject to other additional requirements of these Instructions.</p> <p>SECTION I Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must:</p> <ol style="list-style-type: none"> 1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> 2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses). | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |
| <p>Packing Instruction 968 cont; Passenger and cargo aircraft for UN 3090 This entry applies to lithium metal or lithium alloy batteries in Class 9 (Section I) and lithium metal or lithium alloy batteries subject to specific requirements of these Instructions (Section II).</p> | <p>SECTION II Lithium metal or lithium alloy cells and batteries offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section. Lithium metal or lithium alloy cells and batteries may be offered for transport if they meet the following:</p> <ol style="list-style-type: none"> 1) for a lithium metal cell the lithium content is not more than 1 g; 2) for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g; 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <p><i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i></p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| | General requirements Batteries must be packed in strong outer packagings that conform to Part 4;1.1.1, 1.1.3.1 and 1.1.10 (except 1.1.10.1). | |
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| <p>Packing Instruction 969 Passenger and cargo aircraft for UN 3091 (packed with equipment) only This entry applies to lithium metal or lithium alloy batteries packed with equipment</p> | <p>Section I of this packing instruction applies to lithium metal and lithium alloy cells and batteries that are assigned to Class 9. Certain lithium metal and lithium alloy cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraph above, are not subject to other additional requirements of these Instructions.</p> <p>SECTION I</p> <p>Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must:</p> <ol style="list-style-type: none"> 1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and <p><i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i></p> <ol style="list-style-type: none"> 2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. <p>Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses).</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |
| | <p>SECTION II</p> <p>Lithium metal cells and batteries packed with equipment offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section.</p> <p>Lithium metal cells and batteries may be offered for transport if they meet the following:</p> <ol style="list-style-type: none"> 1) for a lithium metal cell the lithium content is not more than 1 g; 2) for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g; 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| | General requirements Batteries must be packed in strong outer packagings that conform to Part 4;1.1.1, 1.1.3.1 and 1.1.10 (except 1.1.10.1). | |
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| Reference in TI | Text | Comments |
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| <p>Packing Instruction 970 Passenger and cargo aircraft for UN 3091 (contained in equipment) only This entry applies to lithium metal or lithium alloy batteries contained in equipment.</p> | <p>Section I of this packing instruction applies to lithium metal and lithium alloy cells and batteries that are assigned to Class 9. Certain lithium metal and lithium alloy cells and batteries offered for transport and meeting the requirements of Section II of this packing instruction, subject to the paragraph above, are not subject to other additional requirements of these Instructions.</p> <p>SECTION I</p> <p>Section I requirements apply to each cell or battery type that has been determined to meet the criteria for assignment to Class 9. Each cell or battery must:</p> <p>1) be of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3; and</p> <p><i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i></p> <p>2) incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or a series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses).</p> | <p>Add “when carried as cargo”</p> <p>WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |

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| <p>Packing Instruction 970 cont; Passenger and cargo aircraft for UN 3091 (contained in equipment) only This entry applies to lithium metal or lithium alloy batteries contained in equipment.</p> | <p>SECTION II Lithium metal cells and batteries contained in equipment offered for transport are not subject to other additional requirements of these Instructions if they meet the requirements of this section. Lithium metal cells and batteries may be offered for transport if they meet the following: 1) for a lithium metal cell the lithium content is not more than 1 g; 2) for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g. 3) each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, section 38.3. <i>Note.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.</i> Devices such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not capable of generating a dangerous evolution of heat, may be transported when intentionally active. When active, these devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems.</p> | <p>Add “when carried as cargo” WG/11 decision – no action required; addressed by agreement of WG/11-WP/40 (which clarifies that the prohibition in air mail, the reporting of dangerous goods accidents and incidents, and the provisions for passengers and crew should apply.)</p> |
| <p>3.5.2 Handling Labels</p> | <p>≠ Packages containing lithium batteries packed according to Packing Instructions 965 to 970 that are not subject to other additional requirements of these Instructions must bear a “Lithium battery” handling label shown in Figure 5-31, as required by the applicable packing instruction. The label must be a minimum dimension of 120 mm × 110 mm except labels of 74 mm × 105 mm may be used on packages containing lithium batteries where the packages are of dimensions such that they can only bear smaller labels. The label must show “Lithium metal batteries” or “Lithium ion batteries”, as applicable. Where the package contains both types of batteries, the label must show “Lithium metal and lithium ion batteries”.</p> | <p>Add “when carried as cargo” WG/11 decision – amend text to read: “Packages containing lithium batteries <u>that meet the requirements of Section II of</u> packed according to Packing Instructions 965 to 970 that are not subject to other additional requirements of these Instructions must bear</p> |

| Reference in TI | Text | Comments |
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| <p>4.4 Reporting of Dangerous Goods Accidents and Incidents</p> | <p>An operator must report dangerous goods accidents and incidents to the appropriate authorities of the State of the Operator and the State in which the accident or incident occurred in accordance with the reporting requirements of those appropriate authorities.</p> <p><i>Note.— This includes incidents involving dangerous goods that are not subject to all or part of the Technical Instructions through the application of an exception or of a special provision (e.g. an incident involving the short circuiting of a dry cell battery that is required to meet short circuit prevention conditions in a special provision of 3;3).</i></p> | <p>No action required.</p> <p>WG/11 decision – amend text to read:</p> <p><i>“Note.— This includes incidents involving dangerous goods that are not subject to all or part of these Technical Instructions through the application</i></p> |
| <p>Chapter 6 - 6.1</p> | <p><i>dry shipper (vapour shipper) — may contain free liquid nitrogen. Dry shippers are not subject to these Instructions only when they do not permit the release of any free liquid nitrogen irrespective of the orientation of the packaging</i></p> | <p>Discussion required</p> <p>WG/11 decision – No action required.</p> |