

## COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS AND ON THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

Sub-Committee of Experts on the Transport of Dangerous Goods

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### PROPOSALS OF AMENDMENT TO THE RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOOD

#### Amendments to ST/SG/AC.10/C.3/2006/97

Transmitted by the expert from the United States of America

#### **Amendments to ST/SG/AC.10/C.3/2006/97**

##### **Proposal**

Amend Special Provision 188 as follows:

188 Cells and batteries offered for transport are not subject to other provisions of these Regulations if they meet the following:

- (a) For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g, and for a lithium ion cell, the Watt-hour rating is not more than 20 Wh;
- (b) For a lithium metal or lithium alloy battery the aggregate lithium content is not more than 2 g, and for a lithium ion battery, the Watt-hour rating is not more than 100 Wh. Lithium ion batteries subject to this provision shall be marked with the Watt-hour rating on the outside case;
- (c) Each cell or battery is of the type proved to meet the requirements of each test in the Manual of Tests and Criteria, Part III, sub section 38.3;
- (d) Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit. The inner packagings shall be packed in strong outer packagings **which conform to the provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.5.**

(e) Cells and batteries when installed in equipment shall be protected from damage and short circuit, and **the equipment** shall be equipped with an effective means of preventing accidental activation. When lithium batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained.

(f) **Except for packages containing no more than four cells installed in equipment or no more than two batteries installed in equipment, each package shall be marked with the following:**

- (i) **an indication that the package contains “lithium metal” or “lithium ion” cells or batteries, as appropriate;**
- (ii) **an indication** that the package shall be handled with care and that a flammability hazard exists if the package is damaged;
- (iii) **an indication** that special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary; and
- (iv) a telephone number for additional information.

(g) **Each consignment of one or more packages marked in accordance with paragraph (f) shall be accompanied with a document including the following:**

- (i) **an indication that the package contains “lithium metal” or “lithium ion” cells or batteries, as appropriate;**
- (ii) **an indication** that the package shall be handled with care and that a flammability hazard exists if the package is damaged;
- (iii) **an indication** that special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary; and
- (iv) a telephone number for additional information.

(h) Except when lithium batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents; and

(i) Except when lithium batteries are installed in or packed with equipment, packages shall not exceed 30 kg gross mass.

As used above and elsewhere in these Regulations, “lithium content” means the mass of lithium in the anode of a lithium metal or lithium alloy cell.

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