

## 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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### MISCELLANEOUS PROPOSALS OF AMENDMENTS TO THE MODEL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS

#### Transport of Genetically Modified Micro-organisms and Organisms

##### Transmitted by the Informal Working Group on GMOs

1. This informal document modifies ST/SG/AC.10/C.3/2008/76 taking into consideration UN/SCETDG/INF.7 transmitted by the expert from Canada. The revisions are as shown below.

#### **Part 2, Chapter 2.6**

2. Under 2.6.3.1 Definitions, delete the definition of GMMO and GMO:

~~2.6.3.1.5 Genetically modified microorganisms and organisms are microorganisms and organisms in which the genetic material has been purposely altered through genetic engineering in a way that does not occur naturally.~~

3. Delete section 2.6.3.4:

~~2.6.3.4 Genetically modified microorganisms and organisms~~

~~2.6.3.4.1 Genetically modified microorganisms not meeting the definition of infectious substance shall be classified according to Chapter 2.9.~~

*Note: The definition of GMO remains in 2.9*

#### **Part 2, Chapter 2.9**

4. Replace 2.9.2.1 as proposed in 2008/76 with the following modifications:

“(c) GMMOs or GMOs which do not meet the definition of toxic (see 2.6.2) or infectious substances (see 2.6.3) ~~but which are capable of altering animals, plants or microbiological substances in a way not normally the result of natural reproduction.~~ They shall be assigned to UN 3245.

GMMOs or GMOs are not subject to these Regulations when authorized [for use [including research]] by the competent authorities of the Governments of the countries of origin, ~~transit~~ and destination.

Genetically modified **live** animals shall be transported under terms and conditions approved by of the competent authorities of the ~~exporting and importing~~ countries of origin and destination.”.

### **Part 3, Chapter 3.3, Special Provisions applicable to certain articles or substances**

11. Amend of Special Provision 219 to read as follows, (new wording underlined):

219 Genetically modified microorganisms (GMMOs) and genetically modified organisms (GMOs) packed and marked in accordance with packing instruction P904 are not subject to any other requirements in these Regulations.

If GMMOs or GMOs meet the definition in Chapter 2.6 of a toxic substance or an infectious substance and the criteria for inclusion in Division 6.1 or 6.2 in accordance with Chapter 2.6 shall be transported as UN 2814, UN 2900 or UN 3373, as appropriate—the requirements in these Regulations for transporting toxic substances or infectious substances apply.

Replace Packing Instruction P904 with the following packing instruction:

P904	PACKING INSTRUCTION	P904
<p>This instruction applies to UN 3245. <b><u>GMMOs or GMOs assigned to UN 3245 which are packed and marked in accordance with this packing instruction are not subject to any other requirement of these Regulations.</u></b></p>		
<p>The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:</p>		
<p>(1) Packagings according to P001 or P002 conforming to the packing group III performance level.</p> <p>(2) Packagings, which need not conform to the packaging test requirements of Part 6, but conforming to the following:</p> <p>(a) An inner packaging comprising:</p> <p>(i) a <del>watertight</del> primary receptacle <del>(ii)</del> <b>and</b> a <del>watertight</del> secondary packaging, <b><u>one of which must be leakproof for liquids or siftproof for solids</u></b> <del>which is leakproof;</del></p> <p><del>(iii)</del>(ii) <b>for liquids</b>, absorbent material placed between the primary receptacle(s) and the secondary packaging. The absorbent material shall be in a quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;</p> <p><del>(iv)</del>(iii) if multiple fragile primary receptacles are placed in a single secondary packaging they shall be individually wrapped or separated to prevent contact between them;</p> <p>(b) An outer packaging which shall be strong enough for its capacity, mass and intended use and the smallest external dimension shall be at least 100 mm. <b><u>[The outer packaging shall be marked “GENETICALLY MODIFIED ORGANISMS” or “GENETICALLY MODIFIED MICROORGANISMS” as appropriate.]</u></b></p>		
<p><b>Additional requirement:</b></p>		
<p>When dry ice or liquid nitrogen is used, all applicable requirements of these Regulations shall be met. When used, ice or dry ice shall be placed outside the secondary packagings or in the outer packaging or an overpack. Interior supports shall 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 shall be leakproof. If carbon dioxide, solid (dry ice) is used, the packaging shall be designed and constructed to permit the release of carbon dioxide gas to prevent a build-up of pressure that could rupture the packagings and the package (the outer packaging or the overpack) shall be marked “Carbon dioxide, solid” or “Dry ice”.</p>		
<p>The primary receptacle and the secondary packaging shall 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>		