

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

This document is the result of discussions of an informal WG on GMOs 5 December 2008. It is based on INF.65 Rev.1.

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.~~

Part 2, Chapter 2.9

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. 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.</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><u>The packagings shall meet the provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4, 4.1.1.8 and 4.1.3 and be so designed that they meet the construction requirements of 6.1.4. Outer packagings constructed of suitable material of adequate strength and design in relation to the packaging capacity and its intended use shall be used. Where this packing instruction is used for the transport of inner packagings of combination packagings the packaging shall be designed and constructed to prevent inadvertent discharge during normal conditions of transport.</u></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 watertight primary receptacle (ii) and a watertight secondary packaging, one of which must be leakproof for liquids or siftproof for solids which is leakproof;</p>		
<p>(iii)(ii) for liquids, 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>(iv)(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.</p>		
<p><u>For transport, the mark illustrated below shall be displayed on the external surface of the outer packaging on a background of a contrasting colour and shall be clearly visible and legible. The mark shall be in the form of a square set at an angle of 45° (diamond-shaped) with each side having a length of at least 50 mm; the width of the line shall be at least 2 mm and the letters and numbers shall be at least 6 mm high.</u></p>		
		
<p><u>The outer packaging shall be marked “GENETICALLY MODIFIED ORGANISMS” or “GENETICALLY MODIFIED MICROORGANISMS” as appropriate.</u></p>		
<p>Additional requirement:</p>		
<p><u>Dry ice and liquid nitrogen</u></p>		
<p>When carbon dioxide, solid, (dry ice) is used as a refrigerant, the packaging shall be designed and constructed to permit the release of the gaseous carbon dioxide to prevent the build up of pressure that could rupture the packaging.</p>		
<p>Substances consigned in liquid nitrogen or dry ice shall be packed in primary receptacles that are capable of withstanding very low temperatures. The secondary packaging shall also be capable of withstanding very low temperatures and, in most cases, will need to be fitted over the primary receptacle individually.</p>		