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**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**  
(Twenty-first session, 1-10 July 2002,  
agenda item 6 (b))

**PACKAGINGS**

**Miscellaneous proposals**

**Amendment of Packing instruction LP 02  
to include flexible plastics as large outer packaging**

**Transmitted by the International Council of Chemical Associations (ICCA)**

**Background**

A new design type of a flexible large packaging intended for the transport of packing group III solids (powder) in PE blockbottom bags as inner packagings was developed and successfully tested. This large packaging consists of the following parts:

A "Flexible Cover Bag (FCB) Bottom Part" made of woven polypropylene fabric (outside coated) holding 20 X 25 kg welded PE blockbottom bags containing the powdery material. Four flexible bottom loops sewed at the four bottom corners fix the bottom part onto a CP-1 pallet.

The bottom part is then covered by a "Flexible Cover Bag (FCB) Hood" made of woven polypropylene fabric (outside coated). The completed large packaging is further held together and fixed to the pallet by wrapping round with four strong plastics tapes (Strapex).

GE.02-

The following tests under the supervision of the competent authority were performed with this large packaging filled with 20 X 25 kg bags containing the original material:

1. Bottom lift test (6.6.5.3.1): test weight 667 kg. No deformation and no loss of content was observed.
2. Drop test (6.6.5.3.4): drop height 0.8 m, test weight 530 kg. No rupture nor damage was exhibited. There was no leakage of the filling substance from inner packagings.
3. Stacking test (6.6.5.3.3): test weight 954 kg. No deformation and no loss of content was observed.

The competent authority of Switzerland has tested the design type of this flexible large packaging intended for transporting of packing group III solids with a maximum weight of 500 kg per large packaging.

The Packing instructions LP 02 for large packagings (solids) does not allow the use of flexible plastics large packagings, code 51H. ICCA is proposing the amendment of Packing instruction LP 02 to include flexible large packagings.

**Proposal:**

It is proposed that Packing Instruction (solids) LP02 in paragraph 4.1.4.3 be amended to include an entry for Flexible Plastics (51H) in the second column as a large outer packaging that is authorised for solids of packing group III, supplemented by footnote 3.

Inner packagings	Large outer packagings	Packing group I	Packing group II	Packing group III
Plastics <u>2</u> / 50 kg	<b><i>Flexible Plastics (51H) <u>1</u>/ <u>3</u></i></b>	Not allowed	Not allowed	Maximum capacity: 3 m <sup>3</sup>

1/ *These packagings shall not be used when the substances being transported may become liquid during transport*

2/ *These inner packagings shall be sift-proof.*

3/ ***To be used with plastic inner-packagings only.***

For the list of UN numbers assigned to LP02, see addendum to this document.

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