



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)  
MEETING OF THE WORKING GROUP OF THE WHOLE**

Abu Dhabi, United Arab Emirates, 7 to 11 November 2010

**Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2013/2014 Edition**

**2.3: Part 3 — Dangerous Goods List, Special Provisions and Limited and Excepted Quantities**

**PACKING INSTRUCTIONS FOR CHLOROSILANES**

(Presented by CEFIC)

**SUMMARY**

This working paper proposes to correct an inconsistency for Chlorosilanes.

Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 On 1 January 2011 the reformatted packing instructions in the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) will finally become effective. As many others, all entries for chlorosilanes have been assigned to new packing instructions for transport by passenger (PAX) and cargo aircraft (CAO).

1.2 Unfortunately, there is an inconsistency in the rationalized approach for chlorosilane entries. All chlorosilane entries assigned to Class 8 without a subsidiary risk (such as silicon tetrachloride) and with a subsidiary risk of Class 3 (such as propyltrichlorosilane) will be prohibited on passenger aircraft. This is correct and appropriate. On the contrary, however, all chlorosilane entries assigned to Class 3 with a subsidiary risk of Class 8 will be permitted on passenger aircraft. For an example of this illogicality see the following comparison table (see highlighted column “New PAX PI”):

UN Number	Proper Shipping Name	Class / Div	Sub Risk	PG	Net Qty	Old PAX PI	New PAX PI	Net Qty	Old CAO PI	New CAO PI	Net Qty
1818	Silicon tetrachloride	8		II	F	809	F	F	813	876	30.0 L
1162	Dimethyldichlorosilane	3	8	II	F	305	377	1.0 L	307	377	5.0 L

1.3 Considering that this illogicality is not only contradicting to the rationalized approach, but is also seriously adverse to safety when shipping these substances by air, this should be corrected. All chlorosilane entries must be prohibited from transport on passenger aircrafts.

## 2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to prohibit the transport of all chlorosilane entries on passenger aircraft by inserting “Forbidden” in column 10 of Table 3-1 for each of the following chlorosilanes:

UN No.	Name	Class or Division	Subsidiary Risk	Packing Group	Passenger aircraft		
					Packing Instruction (Old)	Packing Instruction (New)	Max. net quantity per package
1162	Dimethyldichlorosilane	3	8	II	305	377	1.0 L
1196	Ethyltrichlorosilane	3	8	II	306	377	1.0 L
1250	Methyltrichlorosilane	3	8	II	306	377	1.0 L
1298	Trimethylchlorosilane	3	8	II	306	377	1.0 L
1305	Vinyltrichlorosilane	3	8	II	306	377	1.0 L
2985	Chlorosilanes, flammable, corrosive, n.o.s.	3	8	II	305	377	1.0 L
3361	Chlorosilanes, toxic, corrosive, n.o.s.	6.1	8	II	609	681	1.0 L
3362	Chlorosilanes, toxic, corrosive, flammable, n.o.s.	6.1	3 8	II	609	681	1.0 L

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