DANGEROUS GOODS PANEL (DGP)

MEETING OF THE WORKING GROUP OF THE WHOLE

Abu Dhabi, 4 to 8 October 2004

Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions* for incorporation in the 2007/2008 edition
2.3: Part 3 — Dangerous Goods List and Limited Quantities Exceptions

FORBIDDEN SUBSTANCES

(Presented by R. Richard)

1. INTRODUCTION

1.1 Even though the Panel clearly took a decision in principle to forbid substances that meet the PG I inhalation toxicity criteria for liquids and toxic gases of Division 2.3 from transport on passenger and cargo aircraft, there are a number of these substances in the 2005-2006 Technical Instructions that are authorized for air transport. It is proposed that these substances be forbidden on both cargo and passenger aircraft.

2. PROPOSAL

2.1 The following substances are proposed to be forbidden on both passenger and cargo aircraft:

Proper Shipping Name	UN #	Class	Sub-risk	Current Cargo Net Qty
Ammonia, anhydrous	UN1005	2.3	8	25 kg
Ammonia solution, relative density less than 0.880 at 15° C in water, with more than 50% ammonia	UN3318	2.3	8	25 kg
Carbon monoxide, compressed	UN 1016	2.3	2.1	25 kg
Carbonyl sulphide	UN2204	2.3	2.1	25 kg
Coal gas, compressed †	UN1023	2.3	2.1	25 kg
Ethyl isocyanate*	UN2481	3	6.1	30 L
Ethylene oxide and carbon dioxide mixture, with more than 87% ethylene oxide	UN3300	2.3	2.1	25 kg

Ethylene oxide	UN1040	2.3	2.1	25 kg
Ethylene oxide with nitrogen up to a total pressure of 1 MPa at 50° C	UN1040	2.3	2.1	25 kg
Hydrogen bromide, anhydrous	UN1048	2.3	8	25 kg
Methyl mercaptan	UN1064	2.3	2.1	25 kg
Silicon tetrafluoride	UN1859	2.3	8	25 kg
Sulphur dioxide	UN1079	2.3	8	25 kg
Sulphuryl fluoride	UN2191	2.3		25 kg
Dimethyldichlorosilane**	UN1162	3	8	5 L

**Although ethyl isocyanate is not assigned a Division 6.1 primary hazard, it is known to be a toxic by inhalation substance.*

*** Dimethldichlorosilane produces extremely toxic gases in contact with water or moisture or when heated (hydrogen chloride and phosgene). It is also orally and dermally toxic and causes destruction of skin, eyes and the respiratory tract.*

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