DANGEROUS GOODS PANEL

Dubai, 31 March to 4 April 2003

Agenda Item 2: Development of recommendations for amendments to the Technical Instructions for incorporation in the 2005/2006 edition

TRANSPORT OF DANGEROUS GOODS ON PASSENGER AIRCRAFT WITHOUT CLASS B OR C MAIN DECK CARGO COMPARTMENTS

(Presented by G A Leach)

1. INTRODUCTION

1.1 At WG 02, DGP-WG02-WP/5 highlighted an unsatisfactory situation in the Supplement resulting from the introduction at DGP 18 of new provisions concerning the carriage of certain dangerous goods on aircraft not equipped with Class B or C main deck cargo compartments. It was explained that by adopting a far more simplified approach than originally proposed, a number of dangerous goods which were unsuitable for such carriage had been inadvertently included in the list of permitted items; in one instance (oxygen) an item for which such an alleviation is highly desirable had been excluded. The Working Group recognised the problem and the purpose of this paper is to offer three alternative proposals to address it.

2. ALTERNATIVE PROPOSAL 1

This is essentially the original proposal made in DGP/18-WP/19:

2.1 Add a new special provision to Table 3-2, to read:

Axxx This commodity may be transported on a passenger aircraft in main deck cargo compartments that do not meet the requirements of Part 7;2.1 with the prior approval of the appropriate authority of the State of Origin and the State of the operator, providing these comply with Part S-5; 2.2 of the Supplement. A copy of the approval must be carried on the aircraft.

2.2 Add "Axxx" to column 7 of the Dangerous Goods List against all the entries shown in Attachment 1 to this paper. (NOTE - the list has not been updated in accordance with the 2003-2004 Technical Instructions; this will only be done if this alternative is favoured by the Working Group).

2.3 Amend Part S-5; 2.2.1 as follows:

Part 7;2.1 of the Technical Instructions……..where there is no other transport available. In such circumstances the State of Origin and the State of the operator may approve the transport of dangerous goods ~~in accordance with the following paragraphs.~~ which are identified in Table 3-1 of the Technical Instructions by special provision Axxx, under the conditions in 2.2.2.

2.4 Replace the existing S-5; 2.2.2 with the following:

Dangerous goods which are identified in Table 3-1 of the Technical Instructions by special provision Axxx may be carried in a main deck cargo compartment of a passenger aircraft which does not meet the certification requirements for a Class B or C cargo compartment providing:

(a) the quantity per package does not exceed that permitted for transport on a passenger aircraft, according to Table 3-1;

(b) they are packed in combination packagings;

(c) where there is more than one packing group shown in Table 3-1 for a particular commodity, only packing group III may be carried;

(d) other than for Division 6.2 substances, if the proper shipping name of the commodity includes "n.o.s", only those dangerous goods without any subsidiary risk are permitted;

(e) they comply fully with the requirements of the Technical Instructions except for those relating to carriage in main deck cargo compartments of passenger aircraft;

(f) the operations and other appropriate manuals contain specific procedures for dealing with any incidents that may occur during flight;

(g) a copy of the approval is carried on the aircraft.

3. ALTERNATIVE PROPOSAL 2

3.1 Amend Part S-5; 2.2.1 as follows:

Part 7;2.1 of the Technical Instructions……..where there is no other transport available. In such circumstances the State of Origin and the State of the operator may approve the transport of dangerous goods ~~in accordance with the following paragraphs~~. which are identified in Table S-5-1

3.2 Add a new Table S-5-1 containing the list of dangerous goods at Attachment 1 to this paper.

3.3 Replace the existing S-5; 2.2.2 with:

Dangerous goods which are identified in Table S-5-1 may be carried in a main deck cargo compartment of a passenger aircraft which does not meet the certification requirements for a Class B or C cargo compartment providing:

(a) the quantity per package does not exceed that permitted for transport on a passenger aircraft, according to Table 3-1;

(b) they are packed in combination packagings;

(c) where there is more than one packing group shown in Table 3-1 for a particular commodity, only packing group III may be carried;

(d) other than for Division 6.2 substances, if the proper shipping name of the commodity includes "n.o.s", only those dangerous goods without any subsidiary risk are permitted;

(e) they comply fully with the requirements of the Technical Instructions except for those relating to carriage in main deck cargo compartments of passenger aircraft;

(f) the operations and other appropriate manuals contain specific procedures for dealing with any incidents that may occur during flight;

(g) a copy of the approval is carried on the aircraft.

4. ALTERNATIVE PROPOSAL 3

4.1 Amend S-5; 2.2.2 as follows:

2.2.2 The dangerous goods may only be in the following classes or divisions:

Division 1.4S
Division 2.1 Aerosols only
Division 2.2 (except UN2073, UN2037 and UN2857)
Class 3 (except UN2332, UN1112, UN3054, UN2047, UN2059 and UN3269)
Division 4.1 (except UN1309, UN2715, UN3241, UN1313, UN1314, UN2000, UN1318, UN1353, UN1324, UN1869, UN1330, UN3089, UN2213, UN1338, UN2878, UN2878, UN2714)
Division 5.1 (except UN1458, UN1459, UN1467, UN1481, UN1482, UN1483 UN2427, UN2428, UN2429, UN2469, UN2726, UN2984, UN3210, UN3211, UN3213, UN3215, UN3216, UN3218, UN3219)
Division 6.1 (except UN1549, UN1550, UN1551, UN1556, UN1557, UN1593, UN1599, UN1655, UN1686, UN1690, UN1710, UN1812, UN1887, UN1888, UN1897, UN1935, UN2024, UN2025, UN2026, UN2074, UN2077, UN2233, UN2501, UN2505, UN2515, UN2609, UN2655, UN2656, UN2674, UN2713, UN2747, UN2785, UN2788, UN2821, UN2831, UN2853, UN2854, UN2855, UN2856, UN2871, UN2874, UN3141, UN3144, UN3146, UN3286, UN3293)

Division 6.2
Class 7 Excepted packages of radioactive material and packages assigned category I-White only
Class 8 (except UN1731, UN1740, UN1755, UN1757, UN1783, UN1787, UN1788, UN1789, UN1814, UN1819, UN1824, UN1908, UN2430, UN2496, 2508, UN2564, UN2578, UN2585, UN2586, UN2672, UN2677, UN2679, UN2681, UN2693, UN2790, UN2803, UN2809, UN2837, UN2869, UN3145, UN3253, UN3320)
Class 9 (except UN1931, UN1941, UN1990, UN2211, UN2590, UN3268, UN3314, UN3316, UN3363, UN8000)

Dangerous goods permitted under approval granted under S5-2.2

0012	1.4S	Cartridges for weapons, inert projectile
0012	1.4S	Cartridges, small arms
0014	1.4S	Cartridges for weapons, blank
0014	1.4S	Cartridges, small arms, blank
0044	1.4S	Primers, cap type
0055	1.4S	Cases, cartridge, empty, with primer
0070	1.4S	Cutters, cable, explosive
0105	1.4S	Fuse, safety
0110	1.4S	Grenades, practice
0131	1.4S	Lighters, fuse
0173	1.4S	Release devices, explosive
0174	1.4S	Rivets, explosive
0193	1.4S	Signals, railway track, explosive
0323	1.4S	Cartridges, power device
0337	1.4S	Fireworks
0345	1.4S	Projectiles
0349	1.4S	Articles, explosive, n.o.s.*
0366	1.4S	Detonators for ammunition
0367	1.4S	Fuzes, detonating
0368	1.4S	Fuzes, igniting
0373	1.4S	Signal devices, hand
0376	1.4S	Primers, tubular
0384	1.4S	Components, explosive train, n.o.s.*
0404	1.4S	Flares, aerial
0405	1.4S	Cartridges, signal
0432	1.4S	Articles, pyrotechnic
0441	1.4S	Charges, shaped
0445	1.4S	Charges, explosive, commercial
0454	1.4S	Igniters
0455	1.4S	Detonators, non-electric
0456	1.4S	Detonators, electric
0460	1.4S	Charges, bursting, plastics bonded
0481	1.4S	Substances, explosive, n.o.s.*
0500	1.4S	Detonator assemblies, non-electric
1002	2.2	Air, compressed
1006	2.2	Argon, compressed
1009	2.2	Bromotrifluoromethane
1009	2.2	Refrigerant gas R 13B1
1013	2.2	Carbon dioxide

1015	2.2		Carbon dioxide and nitrous oxide mixture
1018	2.2		Chlorodifluoromethane
1018	2.2		Refrigerant gas R 22
1020	2.2		Chloropentafluoroethane
1020	2.2		Refrigerant gas R 115
1021	2.2		1-Chloro-1,2,2,2-tetrafluoroethane
1021	2.2		Refrigerant gas R 124
1022	2.2		Chlorotrifluoromethane
1022	2.2		Refrigerant gas R 13
1028	2.2		Dichlorodifluoromethane
1028	2.2		Refrigerant gas R 12
1029	2.2		Dichlorofluoromethane
1029	2.2		Refrigerant gas R 21
1044	2.2		Fire extinguishers
1046	2.2		Helium, compressed
1056	2.2		Krypton, compressed
1058	2.2		Liquefied gases
1065	2.2		Neon, compressed
1066	2.2		Nitrogen, compressed
1072	2.2	5.1	Oxygen, compressed
1078	2.2		Refrigerant gas, n.o.s.*
1080	2.2		Sulphur hexafluoride
1104	3		Amyl acetates
1105	3		Pentanols
1109	3		Amyl formates
1110	3		n-Amyl methyl ketone
1120	3		Butanols
1123	3		Butyl acetates
1130	3		Camphor oil
1133	3		Adhesives
1134	3		Chlorobenzene
1136	3		Coal tar distillates, flammable
1139	3		Coating solution
1147	3		Decahydronaphthalene
1148	3		Diacetone alcohol
1149	3		Dibutylethers
1152	3		Dichloropentanes
1153	3		Ethylene glycol diethyl ether
1157	3		Diisobutyl ketone
1169	3		Extracts, aromatic, liquid
1170	3		Ethanol
1170	3		Ethanol solution
1170	3		Ethyl alcohol
1170	3		Ethyl alcohol solution
1171	3		Ethylene glycol monoethyl ether
1172	3		Ethylene glycol monoethyl ether acetate
1177	3		Ethylbutyl acetate
1180	3		Ethyl butyrate
1188	3		Ethylene glycol monomethyl ether

1189	3	Ethylene glycol monomethyl ether acetate
1191	3	Octyl aldehydes
1192	3	Ethyl lactate
1197	3	Extracts, flavouring, liquid
1201	3	Fusel oil
1202	3	Diesel fuel
1202	3	Gas oil
1202	3	Heating oil, light
1207	3	Hexaldehyde
1210	3	Printing ink related material
1210	3	Printing ink
1212	3	Isobutanol
1212	3	Isobutyl alcohol
1223	3	Kerosene
1224	3	Ketones, liquid, n.o.s.*
1229	3	Mesityl oxide
1233	3	Methylamyl acetate
1263	3	Paint
1263	3	Paint related material
1264	3	Paraldehyde
1266	3	Perfumery products
1267	3	Petroleum crude oil
1268	3	Petroleum distillates, n.o.s.
1268	3	Petroleum products n.o.s.
1272	3	Pine oil
1274	3	n-Propanol
1274	3	Propyl alcohol, normal
1286	3	Rosin oil
1287	3	Rubber solution
1288	3	Shale oil
1292	3	Tetraethyl silicate
1293	3	Tinctures, medicinal
1299	3	Turpentine
1300	3	Turpentine substitute
1306	3	Wood preservatives, liquid
1307	3	Xylenes
1308	3	Zirconium suspended in a flammable liquid
1312	4.1	Borneol
1328	4.1	Hexamethylenetetramine
1332	4.1	Metaldehyde
1334	4.1	Naphthalene, crude
1334	4.1	Naphthalene, refined
1346	4.1	Silicon powder, amorphous
1350	4.1	Sulphur
1438	5.1	Aluminium nitrate
1444	5.1	Ammonium persulphate

1451	5.1	Caesium nitrate
1454	5.1	Calcium nitrate
1465	5.1	Didymium nitrate
1466	5.1	Ferric nitrate
1474	5.1	Magnesium nitrate
1486	5.1	Potassium nitrate
1492	5.1	Potassium persulphate
1498	5.1	Sodium nitrate
1499	5.1	Sodium nitrate and potassium nitrate mixture
1505	5.1	Sodium persulphate
1507	5.1	Strontium nitrate
1548	6.1	Aniline hydrochloride
1579	6.1	4-Chloro-o-toluidine hydrochloride
1591	6.1	o-Dichlorobenzene
1616	6.1	Lead acetate
1663	6.1	Nitrophenols
1673	6.1	Phenylenediamines
1686	6.1	Sodium arsenite, aqueous solution
1709	6.1	2,4-Toluylenediamine
1718	8	Butyl acid phosphate
1773	8	Ferric chloride, anhydrous
1791	8	Hypochlorite solution
1793	8	Isopropyl acid phosphate
1805	8	Phosphoric acid, liquid
1840	8	Zinc chloride solution
1841	9	Acetaldehyde ammonia
1845	9	Carbon dioxide, solid
1845	9	Dry ice
1851	6.1	Medicine, liquid, toxic, n.o.s.
1858	2.2	Hexafluoropropylene
1858	2.2	Refrigerant gas R 1216
1863	3	Fuel, aviation, turbine engine
1866	3	Resin solution
1872	5.1	Lead dioxide
1884	6.1	Barium oxide
1902	8	Diisooctyl acid phosphate
1907	8	Soda lime
1910	8	Calcium oxide
1913	2.2	Neon, refrigerated liquid
1914	3	Butyl propionates
1915	3	Cyclohexanone
1918	3	Isopropylbenzene
1920	3	Nonanes
1942	5.1	Ammonium nitrate
1944	4.1	Matches safety
1945	4.1	Matches, wax `vesta'

1950	2.2	Aerosols
1951	2.2	Argon, refrigerated liquid
1952	2.2	Ethylene oxide and carbon dioxide mixture
1956	2.2	Compressed gas, n.o.s.*
1958	2.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane
1958	2.2	Refrigerant gas R 114
1963	2.2	Helium, refrigerated liquiD
1968	2.2	Insecticide gas, n.o.s.*
1970	2.2	Krypton, refrigerated liquid
1973	2.2	Chlorodifluoromethane and chloropentafluoroethane mixture
1973	2.2	Refrigerant gas R 502
1974	2.2	Chlorodifluorobromomethane
1974	2.2	Refrigerant gas R 12B1
1976	2.2	Octafluorocyclobutane
1976	2.2	Refrigerant gas R C318
1977	2.2	Nitrogen, refrigerated liquid
1979	2.2	Rare gases mixture, compressed
1980	2.2	Rare gases and oxygen mixture, compressed
1981	2.2	Rare gases and nitrogen mixture, compressed
1982	2.2	Refrigerant gas R 14, compressed
1982	2.2	Tetrafluoromethane
1983	2.2	1-Chloro-2,2,2-trifluoroethane
1983	2.2	Refrigerant gas R 133a
1984	2.2	Refrigerant gas R 23
1984	2.2	Trifluoromethane
1987	3	Alcohols, n.o.s.*
1989	3	Aldehydes, n.o.s.*
1993	3	Flammable liquid, n.o.s.*
1999	3	Tars, liquid
2001	4.1	Cobalt naphthenates, powder
2020	6.1	Chlorophenols, solid
2021	6.1	Chlorophenols, liquid
2036	2.2	Xenon, compressed
2046	3	Cymenes
2048	3	Dicyclopentadiene
2049	3	Diethylbenzene
2052	3	Dipentene
2053	3	Methyl isobutyl carbinol
2055	3	Styrene monomer, stabilized
2057	3	Tripropylene
2067	5.1	Ammonium nitrate fertilizers
2068	5.1	Ammonium nitrate fertilizers
2069	5.1	Ammonium nitrate fertilizers
2070	5.1	Ammonium nitrate fertilizers
2071	9	Ammonium nitrate fertilizers
2187	2.2	Carbon dioxide, refrigerated liquid
2193	2.2	Hexafluoroethane, compressed

2193	2.2	Refrigerant gas R 116, compressed
2205	6.1	Adiponitrile
2208	5.1	Calcium hypochlorite mixture, dry
2209	8	Formaldehyde solution
2214	8	Phthalic anhydride
2215	8	Maleic anhydride
2219	3	Allyl glycidyl ether
2222	3	Anisole
2225	8	Benzenesulphonyl chloride
2227	3	n-Butyl methacrylate, stabilized
2234	3	Chlorobenzotrifluorides
2235	6.1	Chlorobenzyl chlorides
2237	6.1	Chloronitroanilines
2238	3	Chlorotoluenes
2239	6.1	Chlorotoluidines, liquid
2239	6.1	Chlorotoluidines, solid
2243	3	Cyclohexyl acetate
2244	3	Cyclopentanol
2245	3	Cyclopentanone
2247	3	n-Decane
2265	3	N,N-Dimethylformamide
2269	8	3,3'-Iminodipropylamine
2271	3	Ethyl amyl ketone
2272	6.1	N-Ethylaniline
2273	6.1	2-Ethylaniline
2274	6.1	N-Ethyl-N-benzylaniline
2275	3	2-Ethylbutanol
2279	6.1	Hexachlorobutadiene
2280	8	Hexamethylenediamine, solid
2282	3	Hexanols
2283	3	Isobutyl methacrylate, stabilized
2286	3	Pentamethylheptane
2289	8	Isophoronediamine
2290	6.1	Isophorone diisocyanate
2293	3	4-Methoxy-4-methylpentan-2-one
2294	6.1	N-Methylaniline
2297	3	Methylcyclohexanone
2299	6.1	Methyl dichloroacetate
2300	6.1	2-Methyl-5-ethylpyridine
2302	3	5-Methylhexan-2-one
2303	3	Isopropenylbenzene
2311	6.1	Phenetidines
2313	3	Picolines
2319	3	Terpene hydrocarbons, n.o.s.
2320	8	Tetraethylenepentamine
2321	6.1	Trichlorobenzenes, liquid

2323	3	Triethyl phosphite
2324	3	Triisobutylene
2325	3	1,3,5-Trimethylbenzene
2326	8	Trimethylcyclohexylamine
2327	8	Trimethylhexamethylenediamines
2328	6.1	Trimethylhexamethylene diisocyanate
2329	3	Trimethyl phosphite
2330	3	Undecane
2331	8	Zinc chloride, anhydrous
2341	3	1-Bromo-3-methylbutane
2344	3	Bromopropanes
2348	3	Butyl acrylate, stabilized
2364	3	n-Propylbenzene
2366	3	Diethyl carbonate
2368	3	alpha-Pinene
2392	3	Iodopropanes
2394	3	Isobutyl propionate
2405	3	Isopropyl butyrate
2413	3	Tetrapropyl orthotitanate
2422	2.2	Octafluorobut-2-ene
2422	2.2	Refrigerant gas R 1318
2424	2.2	Octafluoropropane
2424	2.2	Refrigerant gas R 218
2431	6.1	Anisidines, liquid
2431	6.1	Anisidines, solid
2432	6.1	N,N-Diethylaniline
2433	6.1	Chloronitrotoluenes, liquid
2433	6.1	Chloronitrotoluenes, solid
2440	8	Stannic chloride pentahydrate
2446	6.1	Nitrocresols
2467	5.1	Sodium percarbonates
2470	6.1	Phenylacetonitrile, liquid
2473	6.1	Sodium arsanilate
2475	8	Vanadium trichloride
2491	8	Ethanolamine
2491	8	Ethanolamine solution
2498	3	1,2,3,6-Tetrahydrobenzaldehyde
2503	8	Zirconium tetrachloride
2504	6.1	Tetrabromoethane
2507	8	Chloroplatinic acid, solid
2511	8	2-Chloropropionic acid, solution
2511	8	2-Chloropropionic-acid, solid
2512	6.1	Aminophenols (o-,m-,p-)
2514	3	Bromobenzene
2516	6.1	Carbon tetrabromide
2518	6.1	1,5,9-Cyclododecatriene

2520	3	Cyclooctadienes
2524	3	Ethyl orthoformate
2525	6.1	Ethyl oxalate
2527	3	Isobutyl acrylate, stabilized
2528	3	Isobutyl isobutyrate
2533	6.1	Methyl trichloroacetate
2538	4.1	Nitronaphthalene
2541	3	Terpinolene
2560	3	2-Methylpentan-2-ol
2565	8	Dicyclohexylamine
2570	6.1	Cadmium compound
2579	8	Piperazine
2580	8	Aluminium bromide solution
2581	8	Aluminium chloride solution
2582	8	Ferric chloride solution
2591	2.2	Xenon, refrigerated liquid
2599	2.2	Chlorotrifluoromethane and trifluoromethane azeotropic mixture
2599	2.2	Refrigerant gas R 503
2602	2.2	Dichlorodifluoromethane and difluoroethane azeotropic mixture
2602	2.2	Refrigerant gas R 500
2607	3	Acrolein dimer, stabilized
2608	3	Nitropropanes
2614	3	Methallyl alcohol
2616	3	Triisopropyl borate
2617	3	Methylcyclohexanols
2618	3	Vinyltoluenes, stabilized
2620	3	Amyl butyrates
2621	3	Acetyl methyl carbinol
2623	4.1	Firelighters, solid
2651	6.1	4,4'-Diaminodiphenylmethane
2659	6.1	Sodium chloroacetate
2660	6.1	Nitrotoluidines (mono)
2661	6.1	Hexachloroacetone
2662	6.1	Hydroquinone
2664	6.1	Dibromomethane
2667	6.1	Butyltoluenes
2687	4.1	Dicyclohexylammonium nitrite
2688	6.1	1-Bromo-3-chloropropane
2689	6.1	Glycerol alpha-monochlorohydrin
2698	8	Tetrahydrophthalic anhydrides
2707	3	Dimethyldioxanes
2709	3	Butylbenzenes
2710	3	Dipropyl ketone
2716	6.1	1,4-Butynediol
2717	4.1	Camphor
2720	5.1	Chromium nitrate

2722	5.1	Lithium nitrate
2724	5.1	Manganese nitrate
2725	5.1	Nickel nitrate
2728	5.1	Zirconium nitrate
2729	6.1	Hexachlorobenzene
2730	6.1	Nitroanisole, liquid
2730	6.1	Nitroanisole, solid
2732	6.1	Nitrobromobenzene, liquid
2732	6.1	Nitrobromobenzene, solid
2739	8	Butyric anhydride
2752	3	1,2-Epoxy-3-ethoxypropane
2753	6.1	N-Ethylbenzyltoluidines, liquid
2753	6.1	N-Ethylbenzyltoluidines, solid
2794	8	Batteries, wet, filled with acid
2795	8	Batteries, wet, filled with alkali
2800	8	Batteries, wet, non-spillable
2802	8	Copper chloride
2807	9	Magnetized material
2812	8	Sodium aluminate, solid
2814	6.2	Infectious substances, affecting humans *
2815	8	N-Aminoethylpiperazine
2819	8	Amyl acid phosphate
2820	8	Butyric acid
2821	6.1	Phenol solution
2823	8	Crotonic acid, liquid
2823	8	Crotonic acid, solid
2829	8	Caproic acid
2834	8	Phosphorous acid, solid
2840	3	Butyraldoxime
2842	3	Nitroethane
2849	6.1	3-Chloropropanol-1
2850	3	Propylene tetramer
2858	4.1	Zirconium, dry
2862	6.1	Vanadium pentoxide
2865	8	Hydroxylamine sulphate
2872	6.1	Dibromochloropropanes
2873	6.1	Dibutylaminoethanol
2875	6.1	Hexachlorophene
2876	6.1	Resorcinol
2900	6.2	Infectious substances, affecting animals* only
2904	8	Chlorophenolates, liquid
2905	8	Chlorophenolates, solid
2908	7	Radioactive material, excepted package, empty packaging
2909	7	Radioactive material, excepted package - articles manufactured from natural uranium or depleted uranium or natural thorium
2910	7	Radioactive material, excepted package, limited quantity of material

2911	7	Radioactive material, excepted package - instruments or articles
2912	7	Radioactive material, low specific activity (LSA-I), non fissile or fissile excepted
2913	7	Radioactive material, surface contaminated objects (SCO-I) or (SCO-II), non fissile or fissile excepted
2915	7	Radioactive material, type A package, non-special form, non fissile or fissile excepted
2916	7	Radioactive material, type B(U) package, non fissile or fissile excepted
2917	7	Radioactive material, type B(M) package, non fissile or fissile excepted
2919	7	Radioactive material, transported under special arrangement, non-fissile or fissile excepted
2933	3	Methyl 2-chloropropionate
2934	3	Isopropyl 2-chloropropionate
2935	3	Ethyl 2-chloropropionate
2937	6.1	alpha-Methylbenzyl alcohol
2941	6.1	Fluoroanilines
2942	6.1	2-Trifluoromethylaniline
2943	3	Tetrahydrofurfurylamine
2946	6.1	2-Amino-5-diethylaminopentane
2947	3	Isopropyl chloroacetate
2967	8	Sulphamic acid
2989	4.1	Lead phosphite, dibasic
2990	9	Life-saving appliances, self-inflating
3028	8	Batteries, dry, containing potassium hydroxide solid
3055	8	2-(2-Aminoethoxy) ethanol
3056	3	n-Heptaldehyde
3065	3	Alcoholic beverages
3066	8	Paint
3066	8	Paint related material
3070	2.2	Ethylene oxide and dichlorodifluoromethane mixture
3072	9	Life-saving appliances, not self-inflating
3092	3	1-Methoxy-2-propanol
3136	2.2	Trifluoromethane, refrigerated liquid
3158	2.2	Gas, Refrigerated Liquid, N.O.S.*
3159	2.2	Refrigerant gas R 134a
3159	2.2	1,1,1,2-Tetrafluoroethane
3163	2.2	Liquefied, gas, n.o.s.*
3164	2.2	Articles, pressurized, hydraulic
3164	2.2	Articles, pressurized, pneumatic
3166	9	Engines, internal combustion, flammable liquid powered
3166	9	Vehicle, flammable liquid powered
3171	9	Battery-powered equipment
3171	9	Battery-powered vehicle
3220	2.2	Pentafluoroethane
3220	2.2	Refrigerant gas R 125
3245	9	Genetically modified micro-organisms
3249	6.1	Medicine, solid, toxic, n.o.s.
3269	5.2	Polyester resin kits

3271	3	Ethers, n.o.s.*
3272	3	Esters, n.o.s.*
3295	3	Hydrocarbons, liquid, n.o.s.
3296	2.2	Heptafluoropropane
3296	2.2	Refrigerant gas R 227
3297	2.2	Ethylene oxide and chlorotetraflouroethane mixture
3298	2.2	Ethylene oxide and pentaflouroethane mixture
3299	2.2	Ethylene oxide and tetroflouoethane mixture
3321	7	Radioactive material, low specific activity (LSA-II), non fissile or fissile excepted
3322	7	Radioactive material, low specific activity (LSA-III), non fissile or fissile excepted
3332	7	Radioactive material, type A package, special form, non fissile or fissile excepted
3337	2.2	Refrigerant gas R 404A
3338	2.2	Refrigerant gas R 407A
3339	2.2	Refrigerant gas R 407B
3340	2.2	Refrigerant gas R 407C
3353	2.2	Air bag inflators
3353	2.2	Air bag modules
3353	2.2	Seat-belt pretensioners, compressed gas
8013	2.2	Gas generator assemblies

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