



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-THIRD MEETING

Montréal, 11 to 21 October 2011

Agenda Item 3: Development of recommendations for amendments to the *Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284SU) for incorporation in the 2013-2014 Edition

REVISIONS TO CLASSES 3-9 DANGEROUS GOODS INFORMATION

(Presented by J. McLaughlin)

SUMMARY

This paper proposes that the Supplement to the Technical Instructions be amended with respect to Classes 3-9 dangerous goods.

Action by the DGP: The DGP is invited to consider assembling a working group to meet at DGP/23. The intent of the working group would be to bring a final proposal addressing Classes 3-9 dangerous goods in the Supplement to the Panel for adoption by the DGP. Revisions made during DGP/23 would allow modifications to be incorporated into the next edition of the Supplement.

1. INTRODUCTION

1.1 The DGP Working Group of the Whole Meeting in Abu Dhabi (DGP-WG/10, 7 to 11 November 2010) began efforts to review and update Classes 3-9 dangerous goods in the Supplement to the Technical Instructions during this biennium (DGP/23-WP/2, paragraph 3.3.3 refers). This work involved a systematic review of how similar materials and articles are applied in the Supplement. The time and input of those panel members who participated in the numerous emails and discussions on this issue has been greatly appreciated.

1.2 In order to complete this effort, it is proposed that a working group meeting take place during DGP/23. This working paper offers the following material intended to facilitate discussion:

Appendix A — Classes 3-9 Dangerous Goods List: Sorted by division for discussion purposes only, the information within this table has been reviewed for consistency with the UN Model Regulations.

Appendix B — General Packing Requirements: Taken from the Technical Instructions, applicable to Classes 3-9 dangerous goods.

Appendix C — Summary Sheet: For Classes 3-9 dangerous goods, an outline by classes and divisions of quantities limits assigned. This can assist the working group in discussions and in arriving at final determinations. This information is not proposed for inclusion in the Supplement, however, the DGP may wish to consider information similar to the comprehensive summary offered in DGP/23-WP/73 as a basis for information presented in the guiding principles.

1.3 Where there were multiple packing instructions applicable to a substance or material, the most restrictive option was chosen. The DGP may also choose to consider other approaches.

APPENDIX A

CLASSES 3-9 DANGEROUS GOODS LIST

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
1-Chloropropane	1278	3		II			A1		Forbidden (352)	Forbidden (1 L)	362	
Acetaldehyde	1089	3		I			A1		Forbidden (350)	Forbidden (0.5 L)	360	2.5 L
Acrylonitrile, stabilized	1093	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Aircraft hydraulic power unit fuel tank (containing a mixture of anhydrous hydrazine and methyl hydrazine) (M86 fuel)	3165	3	6.1, 8	I			A1, A48		Forbidden (350)	Forbidden (0.5 L)	373	42 L
Alcohols, flammable, toxic, n.o.s. *	1986	3	6.1	I			A3		Forbidden	Forbidden	361	30 L
Aldehydes, flammable, toxic, n.o.s. *	1988	3	6.1	I			A3		Forbidden	Forbidden	361	30 L
Allyl bromide	1099	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Allyl chloride	1100	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Allyl formate	2336	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Arsenical pesticide, liquid, flammable, toxic, *	2760	3	6.1	I			A40		Forbidden	Forbidden	Forbidden	Forbidden
Bipyridilium pesticide, liquid, flammable, toxic, *	2782	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Carbamate pesticide, liquid, flammable, toxic*	2758	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Carbon disulphide	1131	3	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Chloroprene, stabilized	1991	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Copper based pesticide, liquid, flammable, toxic, *	2776	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Coumarin derivative pesticide, liquid, flammable, toxic *	3024	3	6.1	I			A48, A4		Forbidden	Forbidden	361	30 L
Desensitized explosives, liquid, n.o.s.	3379	3		I			A133		Forbidden	Forbidden	Forbidden	Forbidden
Elevated temperature liquid, flammable, n.o.s., with flash point above 60.5°C, at or above its flash point	3256	3		III			None		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Ethyl Isocyanate	2481	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Ethyl mercaptan	2363	3		I			A1		Forbidden (350)	Forbidden (0.5 L)	Forbidden (360)	Forbidden (2.5 L)
Ethyl Nitrite	1194	3	6.1	I			A2		Forbidden (350)	Forbidden (0.5 L)	Forbidden (360)	Forbidden (2.5 L)
Ethylene oxide and propylene oxide mixture	2983	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Flammable liquid, toxic, corrosive, n.o.s. *	3286	3	6.1, 8	I			None		Forbidden	Forbidden	360	2.5 L
Flammable liquid, toxic, n.o.s. *	1992	3	6.1	I			A3		Forbidden	Forbidden	361	30 L
Mercaptan mixture, liquid, flammable, toxic, n.o.s. *	1228	3	6.1	II			A1, A3, A36		Forbidden (352)	Forbidden (1 L)	374	60.0 L
Mercury based pesticide, liquid, flammable, toxic, *	2778	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Methacrylonitrile, stabilized	3079	3	6.1	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Methoxymethyl isocyanate	2605	3	6.1	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Methyltrichlorosilane	1250	3	8	I			A1		Forbidden (350)	Forbidden (0.5 L)	360	2.5 L
Nitriles, flammable, toxic, n.o.s. *	3273	3	6.1	I			None		Forbidden	Forbidden	361	30 L
Nitroglycerin mixture, desensitized with <30% nitro by mass	3343	3					A17, A204		Forbidden	Forbidden	Forbidden	Forbidden
Nitroglycerin mixture, desensitized with <30% nitro by mass	3357	3		II			A17		Forbidden	Forbidden	Forbidden	Forbidden
Nitroglycerin solution in alcohol	3064	3		II			None		Forbidden (352)	Forbidden (1 L)	362	5 L
Nitromethane	1261	3		II			A1, A39		Forbidden (352)	Forbidden (1 L)	No Limit	
Organochlorine pesticide, liquid, flammable, toxic *	2762	3	6.1	I			A4		Forbidden (350)	Forbidden (0.5 L)	361	30 L
Organophosphorus pesticide, liquid, flammable, toxic, *	2784	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Organotin pesticide, liquid, flammable, toxic *	2787	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Pesticide, liquid, flammable, toxic, n.o.s. *	3021	3	6.1	I			A4		Forbidden	Forbidden	361	30 L

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic * flash point less than 23°C	3346	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Propionitrile	2404	3	6.1	II			A1		Forbidden (352)	Forbidden (1 L)	364	60.0 L
Pyrethroid pesticide, liquid, flammable, toxic *	3350	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Substituted nitrophenol pesticide, liquid, flammable, toxic, *	2780	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Tetramethylsilane	2749	3		I			A1		Forbidden (350)	Forbidden (0.5 L)	361	5 L
Thiocarbamate pesticide, liquid, flammable, toxic, *	2772	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Triazine pesticide, liquid, flammable, toxic, *	2764	3	6.1	I			A4		Forbidden	Forbidden	361	30 L
Zirconium suspended in a flammable liquid †	1308	3		I			A1, A3, A108		Forbidden (350)	Forbidden (0.5 L)	361	5 L
Hydrocarbons, liquid, n.o.s.	3295	3		I			A3, A224		302	1 L	303	30 L
Hydrocarbons, liquid, n.o.s.	3295	3		II			A3, A224		305	5 L	307	60 L
Hydrocarbons, liquid, n.o.s.	3295	3		III			A3, A224		309	10 L	310	220 L
Isopropyl isocyanate	2483	3	6.1	I			A223		Forbidden (350)	Forbidden (0.5 L)	Forbidden (360)	Forbidden (2.5 L)
Kerosene	1223	3		III			A224		Forbidden (355)	Forbidden (60 L)	366	220 L
5-tert-Butyl-2,4,6-trinitro-m-xylene (musk xylene)	2956	4.1		III			A20, A200, A215					
Azodicarbonamide	3242	4.1		II			A60		Forbidden (450)	Forbidden (15 KG)	Forbidden (453)	Forbidden (50 KG)
Barium azide, wetted	1571	4.1	6.1	I			A40		Forbidden	Forbidden	456	0.5 KG
Decaborane	1868	4.1	6.1	II			A1		Forbidden (450)	Forbidden (15 KG)	453	50 KG
Desensitized explosive, solid, n.o.s.	3380	4.1		I			A133		Forbidden	Forbidden	Forbidden	Forbidden
Dipicryl sulphide, wetted	2852	4.1		I			A40		Forbidden	Forbidden	451	0.5 KG
Flammable solid, organic, molten, n.o.s.	3176	4.1		II			None		Forbidden	Forbidden	Forbidden	Forbidden
Flammable solid, organic, molten, n.o.s.	3176	4.1		III			None		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Flammable solid, oxidizing, n.o.s.	3097	4.1	5.1	II			A3		Forbidden	Forbidden	Forbidden	Forbidden
Flammable solid, oxidizing, n.o.s.	3097	4.1	5.1	III			A3		Forbidden	Forbidden	Forbidden	Forbidden
Isosorbide-5-mononitrate	3251	4.1		III			A20, A110		Forbidden	Forbidden	Forbidden (454)	Forbidden (100 kg)
Matches, fusee	2254	4.1		III			A2, A125		Forbidden (451)	Forbidden (25 kg)	460	100 KG
Matches, strike anywhere	1331	4.1		III			A2, A125					
musk xylene (5-tert-Butyl-2,4,6-trinitro-m-xylene)	2956	4.1		III			A20, A200, A215					
Naphthalene, molten	2304	4.1		III			None		Forbidden	Forbidden	Forbidden	Forbidden
Nitroglycerin mixture desensitized, solid, n.o.s. *	3319	4.1					A1, A68		Forbidden	Forbidden	Forbidden	Forbidden
Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s.	3344	4.1					None		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type B*	3221	4.1					A215		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type B, temperature controlled*	3231	4.1					A214, A215		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type C, temperature controlled*	3233	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type D, temperature controlled*	3235	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type E, temperature controlled*	3237	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive liquid type F, temperature controlled*	3239	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type B*	3222	4.1					A215		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type B, temperature controlled*	3231	4.1					A214, A215		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type C, temperature controlled*	3234	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type D, temperature controlled*	3236	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type E, temperature controlled*	3238	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden
Self-reactive solid Type F, temperature	3240	4.1					A214		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
controlled*												
Silver picrate, wetted	1347	4.1		I			A40		Forbidden	Forbidden	Forbidden	Forbidden
Sodium picramate, wetted	1349	4.1		I			A1, A40		Forbidden	Forbidden	459	15 KG
Sulphur, molten	2448	4.1		III			None		Forbidden	Forbidden	Forbidden	Forbidden
4-Nitrophenylhydrazine, with not less than 30% water, by mass	3376	4.1					A2		Forbidden	Forbidden	Forbidden	Forbidden
Aluminium borohydride	2870	4.2	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Aluminium borohydride in devices	2870	4.2	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Barium alloys, pyrophoric	1854	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Calcium alloys, pyrophoric	1855	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Calcium, pyrophoric	1855	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Carbon, animal or vegetable origin	1361	4.2		II			A2, A3		Forbidden	Forbidden	Forbidden	Forbidden
Carbon, animal or vegetable origin	1361	4.2		III			A2, A3		Forbidden	Forbidden	Forbidden	Forbidden
Celluloid, scrap	2002	4.2		III			A2, A3		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Copra	1363	4.2		III			A2, A48		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Cotton waste, oily	1364	4.2		III			A2, A48		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Cotton, wet	1365	4.2		III			A2, A48		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fabrics, animal, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fabrics, synthetic, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fabrics, vegetable, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fibres, animal, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fibres, synthetic, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Fibres, vegetable, n.o.s., with oil	1373	4.2		III			A2		Forbidden (473)	Forbidden (25 kg)	Forbidden (475)	Forbidden (100 KG)
Hafnium powder, dry	2545	4.2		I			A3		Forbidden	Forbidden	Forbidden	Forbidden
Iron oxide, spent	1376	4.2		III			A2, A3		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Iron sponge, spent	1376	4.2		III			A2, A3		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Metal catalyst, dry	2881	4.2		I			A3, A36		Forbidden	Forbidden	Forbidden	Forbidden
Metal catalyst, dry	2881	4.2		II			A3, A36		Forbidden (471)	Forbidden (15 KG)	477	50 KG
Metal catalyst, wetted	1378	4.2		II			A1		Forbidden (471)	Forbidden (15 KG)	477	50 KG
Organometallic substance, liquid, pyrophoric	3392	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Organometallic substance, liquid, pyrophoric, water reactive	3394	4.2	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Organometallic substance, solid, pyrophoric	3391	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Organometallic substance, solid, pyrophoric, water reactive	3393	4.2	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Paper, unsaturated oil treated	1379	4.2		III			A2, A48		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Pentaborane	1380	4.2	6.1	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, white, dry	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, white, in solution	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, white, molten	2447	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, white, under water	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, yellow, dry	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, yellow, in solution	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus, yellow, under water	1381	4.2	6.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Plastics, nitrocellulose-based, self-heating, n.o.s.	2006	4.2		III			A2		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Pyrophoric alloy, n.o.s.	1383	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Pyrophoric liquid, inorganic, n.o.s.	3194	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Pyrophoric liquid, organic, n.o.s.	2845	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Pyrophoric metal, n.o.s.	1383	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Pyrophoric solid, inorganic, n.o.s.	3200	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Pyrophoric solid, organic, n.o.s.	2846	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Seed cake with <1.5% oil and <11% moisture	2217	4.2		III			A2, A55		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Seed cake with >1.5% oil and >11% moisture	1386	4.2		III			A2, A48, A216		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Self-heating solid, oxidizing, n.o.s.	3127	4.2	5.1	II			A2		Forbidden	Forbidden	Forbidden	Forbidden
tert-Butyl hypochlorite	3255	4.2	8	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Titanium powder, dry	2546	4.2		I			A3		Forbidden	Forbidden	Forbidden	Forbidden
Titanium trichloride mixture, pyrophoric	2441	4.2	8	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Titanium trichloride, pyrophoric	2441	4.2	8	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Tributylphosphane	3254	4.2		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Zirconium powder, dry	2008	4.2		I			A3		Forbidden	Forbidden	Forbidden	Forbidden
Zirconium scrap	1932	4.2		III			A2, A3		Forbidden (473)	Forbidden (25 KG)	Forbidden (475)	Forbidden (100 KG)
Alkali metal alloy, liquid, n.o.s.	1421	4.3		I			A84		Forbidden	Forbidden	480	1.0 L
Alkali metal amalgam, liquid	1389	4.3		I			A84		Forbidden	Forbidden	480	1.0 L
Alkali metal amalgam, solid	3401	4.3		I			A84		Forbidden	Forbidden	487	15 KG
Alkali metal dispersion	1391	4.3		I			A84, A147		Forbidden	Forbidden	480	1.0 L
Alkaline earth metal amalgam, liquid	1392	4.3		I			A85		Forbidden	Forbidden	480	1.0 L
Alkaline earth metal amalgam, solid	3402	4.3		I			A85		Forbidden	Forbidden	487	15 KG
Alkaline earth metal dispersion	1391	4.3		I			A84, A147		Forbidden	Forbidden	480	1.0 L
Aluminium hydride	2463	4.3		I			None		Forbidden	Forbidden	487	15 KG
Aluminium phosphide	1397	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Batteries, containing sodium †	3292	4.3		II			A94		Forbidden (483)	Forbidden (15 KG)	492	NO LIMIT
Boron trifluoride dimethyl etherate	2965	4.3	3, 8	I			None		Forbidden	Forbidden	480	1.0 L
Caesium	1407	4.3		I			None		Forbidden	Forbidden	487	15 KG
Calcium carbide	1402	4.3		I			None		Forbidden	Forbidden	487	15 KG
Calcium hydride	1404	4.3		I			None		Forbidden	Forbidden	487	15 KG
Calcium phosphide	1360	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Chlorosilanes, water-reactive, flammable, corrosive, n.o.s.	2988	4.3	3, 8	I			None		Forbidden	Forbidden	480	1.0 L
Ethylchlorosilane	1183	4.3	3, 8	I			None		Forbidden	Forbidden	480	1.0 L

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Lithium	1415	4.3		I			II		Forbidden	Forbidden	487	15 KG
Lithium aluminium hydride	1410	4.3		I			None		Forbidden	Forbidden	487	15 KG
Lithium aluminium hydride, ethereal	1411	4.3	3	I			None		Forbidden	Forbidden	480	1.0 L
Lithium borohydride	1413	4.3		I			None		Forbidden	Forbidden	487	15 KG
Lithium hydride	1414	4.3		I			None		Forbidden	Forbidden	487	15 KG
Lithium nitride	2806	4.3		I			None		Forbidden	Forbidden	488	15 KG
Magnesium alloys powder	1418	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Magnesium aluminium phosphide	1419	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Magnesium hydride	2010	4.3		I			None		Forbidden	Forbidden	487	15 KG
Magnesium phosphide	2011	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Magnesium powder	1418	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Metal hydrides, water-reactive, n.o.s. *	1409	4.3		I			None		Forbidden	Forbidden	487	15 KG
Metallic substance, water-reactive, n.o.s. *	3208	4.3		I			A3		Forbidden	Forbidden	487	15 KG
Metallic substance, water-reactive, self-heating, n.o.s. *	3209	4.3	4.2	I			A3		Forbidden	Forbidden	487	15 KG
Methyl magnesium bromide in ethyl ether	1928	4.3	3	I			None		Forbidden	Forbidden	480	1.0 L
Methyldichlorosilane	1242	4.3	3, 8	I			None		Forbidden	Forbidden	480	1.0 L
Organometallic substance, liquid, water-reactive *	3398	4.3		I			A3		Forbidden	Forbidden	480	1.0 L
Organometallic substance, liquid, water-reactive, flammable *	3399	4.3	3	I			A3		Forbidden	Forbidden	Forbidden (494)	Forbidden (1 L)
Organometallic substance, solid, water-reactive *	3395	4.3	4.2	I			A3		Forbidden	Forbidden	487	15 KG
Organometallic substance, solid, water-reactive, flammable *	3396	4.3	4.1	I			A3		Forbidden	Forbidden	488	15 KG
Organometallic substance, solid, water-reactive, self-heating *	3397	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Potassium	2257	4.3		I			A1		Forbidden	Forbidden (1 KG)	487	15 KG
Potassium borohydride	1870	4.3		I			None		Forbidden	Forbidden	487	15 KG
Potassium metal alloys, liquid	1420	4.3		I			A1		Forbidden	Forbidden (1 KG)	480	1.0 L

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Potassium metal alloys, solid	3403	4.3		I					Forbidden	Forbidden	487	15 KG
Potassium phosphide	2012	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Potassium sodium alloys, liquid	1422	4.3		I			None		Forbidden	Forbidden	480	1.0 L
Potassium sodium alloys, solid	3404	4.3		I			None		Forbidden	Forbidden	487	15 KG
Rubidium	1423	4.3		I			None		Forbidden	Forbidden	487	15 KG
Sodium	1428	4.3		I			A1		Forbidden	Forbidden (1 KG)	487	15 KG
Sodium aluminium hydride	2835	4.3		II			A1		Forbidden (483)	Forbidden (15 KG)	489	50 KG
Sodium borohydride	1426	4.3		I			None		Forbidden	Forbidden	487	15 KG
Sodium hydride	1427	4.3		I			None		Forbidden	Forbidden	487	15 KG
Sodium phosphide	1432	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Stannic phosphides	1433	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Strontium phosphide	2013	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Trichlorosilane	1295	4.3	3, 8	I			None		Forbidden	Forbidden	Forbidden (480)	Forbidden (1 L)
Water-reactive liquid, corrosive, n.o.s. *	3129	4.3	8	I			A3		Forbidden	Forbidden	480	1.0 L
Water-reactive liquid, n.o.s. *	3148	4.3		I			A3		Forbidden	Forbidden	480	1.0 L
Water-reactive liquid, toxic, n.o.s. *	3130	4.3	6.1	I			A3		Forbidden	Forbidden	480	1.0 L
Water-reactive solid, corrosive, n.o.s. *	3131	4.3	8	I			A3		Forbidden	Forbidden	488	15 KG
Water-reactive solid, flammable, n.o.s. *	3132	4.3	4.1	I			A3		Forbidden	Forbidden	488	15 KG
Water-reactive solid, n.o.s. *	2813	4.3		I			A3		Forbidden	Forbidden	488	15 KG
Water-reactive solid, oxidizing, n.o.s. *	3133	4.3	5.1	II			A2		Forbidden	Forbidden	Forbidden	Forbidden
Water-reactive solid, oxidizing, n.o.s. *	3133	4.3	5.1	III			A3		Forbidden	Forbidden	Forbidden	Forbidden
Water-reactive solid, self-heating, n.o.s. *	3135	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Water-reactive solid, toxic, n.o.s. *	3134	4.3	6.1	I			A3		Forbidden	Forbidden	488	15 KG
Zinc dust	1436	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Zinc phosphide	1714	4.3	6.1	I			None		Forbidden	Forbidden	487	15 KG
Zinc powder	1436	4.3	4.2	I			A3		Forbidden	Forbidden	488	15 KG
Ammonium nitrate, liquid	2426	5.1					A129		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Chloric acid, aqueous solution with < 10% chloric acid	2626	5.1		II			A2		Forbidden (550)	Forbidden (1 L)	Forbidden (554)	Forbidden (5 L)
Hydrogen peroxide, aqueous solution >40% <60%	2014	5.1	8	II			A2, A75		Forbidden (550)	Forbidden (1 L)	Forbidden (554)	Forbidden (5 L)
Hydrogen peroxide, aqueous solution stabilized >60%	2015	5.1	8	I			None		Forbidden	Forbidden	Forbidden (553)	Forbidden (2.5 L)
Hydrogen peroxide, stabilized	2015	5.1	8	I			None		Forbidden	Forbidden	Forbidden (553)	Forbidden (2.5 L)
Oxidizing liquid, corrosive, n.o.s. *	3098	5.1	8	I			A3		Forbidden	Forbidden	Forbidden (553)	Forbidden (2.5 L)
Oxidizing liquid, n.o.s. *	3139	5.1		I			A3		Forbidden	Forbidden	553	2.5 L
Oxidizing solid, flammable, n.o.s.	3137	5.1	4.1	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Oxidizing solid, self-heating, n.o.s.	3100	5.1	4.2	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Oxidizing solid, self-heating, n.o.s.	3100	5.1	4.2	II			None		Forbidden	Forbidden	Forbidden	Forbidden
Oxidizing solid, water-reactive, n.o.s.	3121	5.1	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Oxidizing solid, water-reactive, n.o.s.	3121	5.1	4.3	II			None		Forbidden	Forbidden	Forbidden	Forbidden
Oxygen generator, chemical	3356	5.1		II			A1, A111, A116, A144, A201		Forbidden (565)	Forbidden (25 KG G)	Forbidden (565)	Forbidden (25 KG G)
Perchloric acid,	1873	5.1	8	I			None		Forbidden	Forbidden	Forbidden (553)	Forbidden (2.5 L)
Potassium peroxide	1491	5.1		I			A1		Forbidden (557)	Forbidden (1 KG)	561	15 KG
Potassium superoxide	2466	5.1		I			A1		Forbidden (557)	Forbidden (1 KG)	561	15 KG
Sodium peroxide	1504	5.1		I			A1		Forbidden (557)	Forbidden (1 KG)	561	15 KG
Sodium superoxide	2547	5.1		I			A1		Forbidden (557)	Forbidden (1 KG)	561	15 KG
Ammonium nitrate emulsion, intermediate for blasting explosives	3375	5.1							Forbidden	Forbidden	Forbidden	Forbidden
Ammonium nitrate gel, intermediate for blasting explosives	3375	5.1							Forbidden	Forbidden	Forbidden	Forbidden
Ammonium nitrate suspension, intermediate for blasting explosives	3375	5.1							Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Bromine trifluoride	1745	5.1	8	I			A2, A223		Forbidden (522)	Forbidden (0.5 L)	Forbidden (501)	Forbidden (2.5 L)
Bromine pentafluoride	1746	5.1	6.1, 8	I			A2, A223		Forbidden (522)	Forbidden (0.5 L)	Forbidden (501)	Forbidden (2.5 L)
Iodine pentafluoride	2495	5.1	6.1, 8	I					Forbidden	Forbidden	Forbidden (553)	Forbidden (2.5 L)
Tetranitromethane	1510	5.1	6.1	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type C, liquid, temperature controlled	3113	5.2					A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type C, solid, temperature controlled	3114	5.2					A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type D, liquid, temperature controlled	3115	5.2					A2, A150, A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type D, solid, temperature controlled	3116	5.2					A2, A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type E, liquid, temperature controlled	3117	5.2					A2, A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type E, solid, temperature controlled	3118	5.2					A2, A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type F, liquid, temperature controlled	3119	5.2					A2, A203		Forbidden	Forbidden	Forbidden	Forbidden
Organic peroxide type F, solid, temperature controlled	3120	5.2					A2, A203		Forbidden	Forbidden	Forbidden	Forbidden
2-Chloroethanal	2232	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
2-Methyl-2-heptanethiol	3023	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Acetone cyanohydrin, stabilized	1541	6.1		I			A1, A223		Forbidden (651)	Forbidden (0.5 L)	657	2.5 L
Acrolein, stabilized	1092	6.1	3	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Allyl alcohol	1098	6.1	3	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Allyl chloroformate	1722	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Allyl isothiocyanate, stabilized	1545	6.1	3	II			A1		Forbidden (654)	Forbidden (5 L)	661	60.0 L
Allylamine	2334	6.1	3	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Aluminium phosphide pesticide	3048	6.1		I			A128		Forbidden (665)	Forbidden (1 KG)	672	15 KG
Ammunition, tear-producing, non-explosive	2017	6.1	8	II			A1		Forbidden (668)	Forbidden (15 KG)	679	50 KG
Ammunition, toxic, non-explosive	2016	6.1		II			A1		Forbidden (669)	Forbidden (25 KG)	679	75 KG
Arsenic trichloride	1560	6.1		I			A223		Forbidden	Forbidden	Forbidden	Forbidden

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Bromoacetone	1569	6.1	3	II			A2, A223		Forbidden (654)	Forbidden (5 L)	Forbidden (661)	Forbidden (60 L)
Bromobenzyl cyanides, liquid	1694	6.1		I			A1, A29		Forbidden (651)	Forbidden (0.5 L)	658	2.5 L
Chemical sample, toxic	3315	6.1		I			A106		Forbidden (665)	Forbidden (1 KG)	Forbidden (672)	Forbidden (15 KG)
Chloroacetic acid, molten	3250	6.1	8	II			None		Forbidden	Forbidden	Forbidden	Forbidden
Chloroacetone, stabilized	1695	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Chloroacetonitrile	2668	6.1	3	II			A2, A223		Forbidden (654)	Forbidden (5 L)	Forbidden (661)	Forbidden (60 L)
Chloroacetophenone, liquid	3416	6.1		II			A1		Forbidden (654)	Forbidden (5 L)	661	60.0 L
Chloroacetophenone, solid	1697	6.1		II			A1		Forbidden (669)	Forbidden (25 KG)	674	100 KG
Chloroacetyl chloride	1752	6.1	8	I			A2, A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Chloropicrin	1580	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Chloropicrin mixture, n.o.s.	1583	6.1		I			A2		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Chloropicrin mixture, n.o.s.	1583	6.1		II			A3		Forbidden (653)	Forbidden (1 L)	Forbidden (659)	Forbidden (5 L)
Chloropicrin mixture, n.o.s.	1583	6.1		III			A137		Forbidden (655)	Forbidden (60 L)	Forbidden (663)	Forbidden (220 L)
Crotonaldehyde, stabilized	1143	6.1	3	I			A2, A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Cyanogen bromide	1889	6.1	8	I			A2		Forbidden (665)	Forbidden (1 KG)	Forbidden (672)	Forbidden (15 KG)
Cyclohexyl isocyanate	2488	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Dichlorodimethyl ether, symmetrical	2249	6.1	3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Diketene, stabilized	2521	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Dimethyl sulphate	1595	6.1	8	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Dimethylhydrazine, symmetrical	2382	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Dimethylhydrazine, unsymmetrical	1163	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Dinitrotoluenes, molten	1600	6.1		II			None		Forbidden	Forbidden	Forbidden	Forbidden
Diphenylamine chloroarsine	1698	6.1		I			None		Forbidden	Forbidden	Forbidden	Forbidden
Diphenylchloroarsine, solid	3450	6.1		I			None		Forbidden (665)	Forbidden (1 KG)	672	50 kg

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									Forbidden	P Q	Forbidden	C Q
Diphenylchloroarsine, liquid	1699	6.1		I			None		Forbidden (652)	Forbidden (1 L)	Forbidden (658)	15 KG
Epibromohydrin	2558	6.1	3	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Ethyl bromoacetate	1603	6.1	3	II			A2		Forbidden (654)	Forbidden (5 L)	Forbidden (661)	Forbidden (60 L)
Ethyl chloroformate	1182	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Ethylchloroarsine	1892	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Ethylene chlorohydrin	1135	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Ethylene dibromide	1605	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Ethyleneimine, stabilized	1185	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Hexachlorocyclopentadiene	2646	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Hydrocyanic acid, aqueous solution <20% hydrogen cyanide	1613	6.1		I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Hydrogen cyanide, aqueous solution <20% hydrogen cyanide	1613	6.1		I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Hydrogen cyanide, solution in alcohol <45% hydrogen cyanide	3294	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Hydrogen cyanide, stabilized <3% water	1051	6.1	3	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Hydrogen cyanide, stabilized <3% water and absorbed in porous material	1614	6.1		I			A2, A223		Forbidden	Forbidden	Forbidden	Forbidden
Iron pentacarbonyl	1994	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Isopropyl chloroformate	2407	6.1	3, 8	I			A2, A223		Forbidden	Forbidden	Forbidden	Forbidden
Methanesulphonyl chloride	3246	6.1	8	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl bromide and ethylene dibromide mixture, liquid	1647	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl chloroacetate	2295	6.1	3	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl chloroformate	1238	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Methyl chloromethyl ether	1239	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)

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									Forbidden	P Q	Forbidden	C Q
Methyl iodide	2644	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl isocyanate	2480	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl isothiocyanate	2477	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl orthosilicate	2606	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Methyl vinyl ketone, stabilized	1251	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Methylhydrazine	1244	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Motor fuel anti-knock mixture	1649	6.1		I			A1, A47			Forbidden (1 L)		30 L
n-Butyl chloroformate	2743	6.1	3, 8	II			A223		Forbidden	Forbidden	Forbidden	Forbidden
n-Butyl isocyanate	2485	6.1	3	I			A2, A223		Forbidden	Forbidden	Forbidden	Forbidden
Nickel carbonyl	1259	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
n-Propyl chloroformate	2740	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
n-Propyl isocyanate	2482	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Perchloromethyl mercaptan	1670	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Phenol, molten	2312	6.1		II			None		Forbidden	Forbidden	Forbidden	Forbidden
Phenyl isocyanate	2487	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Phenyl mercaptan	2337	6.1	3	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Phenylcarbylamine chloride	1672	6.1		I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Phosphorus trichloride	1809	6.1	8	I			A223		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Tear gas candles	1700	6.1	4.1	II			A1		Forbidden (668)	Forbidden (15 KG)	679	50 KG
Tear gas substance, liquid, n.o.s.	1693	6.1		II			A2, A36		Forbidden	Forbidden	659	5 L
Tear gas substance, solid, n.o.s.	3448	6.1		I			A1, A36		Forbidden	Forbidden	672	15 KG
Tear gas substance, solid, n.o.s.	3448	6.1		II			A1, A36		Forbidden (669)	Forbidden (5 KG)	674	25 KG
tert-Butyl isocyanate	2484	6.1	3	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Thiophosgene	2474	6.1		II			A113, A223		Forbidden (654)	Forbidden (5 L)	Forbidden (661)	Forbidden (60 L)
Toxic by inhalation liquid n.o.s.	3381	6.1		I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Toxic by inhalation liquid n.o.s.	3382	6.1		I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Toxic by inhalation liquid, corrosive n.o.s.	3389	6.1	8	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Toxic by inhalation liquid, corrosive n.o.s.	3390	6.1	8	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Toxic by inhalation liquid, flammable n.o.s.	3383	6.1	3	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Toxic by inhalation liquid, flammable n.o.s.	3384	6.1	3	I			None		Forbidden (651)	Forbidden (0.5 L)	Forbidden (657)	Forbidden (2.5 L)
Trimethylacetyl chloride	2438	6.1	3, 8	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Xylyl bromide, liquid	1701	6.1		II			A1		Forbidden (654)	Forbidden (5 L)	661	60.0 L
Crotonaldehyde	1143	6.1	3	I			A2, A219		Forbidden	Forbidden	Forbidden	Forbidden
Allyltrichlorosilane, stabilized	1724	8	3	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Amyltrichlorosilane	1728	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Antimony pentafluoride	1732	8	6.1	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Benzyl chloroformate	1739	8		I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Bombs, smoke, non-explosive	2028	8		II			None		Forbidden	Forbidden	866	50 KG
Boron tribromide	2692	8		I			A2, A223		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Bromine	1744	8	6.1	I			A2		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Bromine solution	1744	8	6.1	I			A2		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Butyltrichlorosilane	1747	8	3	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Chlorophenyltrichlorosilane	1753	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Chlorosulphonic acid	1754	8		I			A223		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Corrosive liquid, oxidizing, n.o.s. *	3093	8	5.1	I			None		Forbidden	Forbidden	854	2.5 L
Corrosive liquid, water-reactive, n.o.s. *	3094	8	4.3	I			None		Forbidden	Forbidden	Forbidden	Forbidden
Cyclohexenyltrichlorosilane	1762	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Cyclohexyltrichlorosilane	1763	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Dichlorophenyltrichlorosilane	1766	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L

Name	UN No.	Class or division	Sub-risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Diethyldichlorosilane	1767	8	3	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Diphenyldichlorosilane	1769	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Dodecyltrichlorosilane	1771	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Ethyl chlorothioformate	2826	8	3	II			A223		Forbidden (851)	Forbidden (1 L)	Forbidden (855)	Forbidden (30 L)
Ethylphenyldichlorosilane	2435	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Hexadecyltrichlorosilane	1781	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Hexyltrichlorosilane	1784	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Hydrazine, aqueous solution	2030	8	6.1	I			A1, A36, A147		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Hydrazine, aqueous solution	2030	8	6.1	II			A1, A36, A147		Forbidden (851)	Forbidden (1 L)	855	30 L
Hydrobromic acid	1788	8		II			A2		Forbidden (851)	Forbidden (1 L)	855	30 L
Hydrofluoric acid and sulphuric acid mixture	1786	8	6.1	I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Hydrogen fluoride, anhydrous	1052	8	6.1	I			A2, A223		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Iodine monochloride	1792	8		II			A1		Forbidden (859)	Forbidden (15 KG)	863	50 KG
Nitrating acid mixture	1796	8		II			A34		Forbidden (851)	Forbidden (1 L)	855	30 L
Nitrating acid mixture	1796	8	5.1	I			A34		Forbidden	Forbidden	854	2.5 L
Nitrating acid mixture, spent	1826	8		II			A34		Forbidden (851)	Forbidden (1 L)	855	30 L
Nitrating acid mixture, spent	1826	8	5.1	I			A34		Forbidden	Forbidden	854	2.5 L
Nitric acid	2031	8		II			A34		Forbidden (851)	Forbidden (1 L)	855	30 L
Nitric acid	2031	8	5.1	I			A34		Forbidden	Forbidden	854	2.5 L
Nitric acid, red fuming	2032	8	5.1, 6.1	I			A223		Forbidden	Forbidden	Forbidden	Forbidden
Nitrohydrochloric acid	1798	8		I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Nonyltrichlorosilane	1799	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Octadecyltrichlorosilane	1800	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Octyltrichlorosilane	1801	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Perchloric acid,	1802	8	5.1	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Phenylphosphorus dichloride	2798	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Phenylphosphorus thiodichloride	2799	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Phenyltrichlorosilane	1804	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Phosphorus oxybromide	1939	8		II			A1		Forbidden (859)	Forbidden (15 KG)	863	50 KG
Phosphorus oxybromide, molten	2576	8		II			None		Forbidden	Forbidden	Forbidden	Forbidden
Phosphorus oxychloride	1810	8		II			A2, A223		Forbidden (851)	Forbidden (1 L)	855	30 L
Phosphorus pentabromide	2691	8		II			A1		Forbidden (859)	Forbidden (15 KG)	863	50 KG
Phosphorus pentachloride	1806	8		II			A1		Forbidden (859)	Forbidden (15 KG)	863	50 KG
Phosphorus tribromide	1808	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Propyltrichlorosilane	1816	8	3	II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Selenic acid	1905	8		I			A1		Forbidden (858)	Forbidden (1 KG)	862	25 KG
Sludge acid †	1906	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L
Sulphur chlorides	1828	8		I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Sulphur chlorides	1828	8		I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Sulphur trioxide, stabilized	1829	8		I			A2, A223		Forbidden (858)	Forbidden (1 KG)	Forbidden (862)	Forbidden (25 KG)
Sulphuric acid, fuming †	1831	8	6.1	I			A2		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Sulphuric acid, spent †	1832	8		II			A1, A34		Forbidden (851)	Forbidden (1 L)	855	30 L
Sulphuryl chloride	1834	8		I			A223		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Thionyl chloride	1836	8		I			A2		Forbidden (850)	Forbidden (0.5 L)	855	30 L
Thiophosphoryl chloride	1837	8		II			A2, A223		Forbidden (851)	Forbidden (1 L)	Forbidden (855)	Forbidden (30 L)
Trichloroacetyl chloride	2442	8		II			A2, A223		Forbidden (851)	Forbidden (1 L)	Forbidden (855)	Forbidden (30 L)
Vanadium oxytrichloride	2443	8		II			A1		Forbidden (851)	Forbidden (1 L)	855	30 L

Name	UN No.	Class or division	Sub. risk	P G	Labels	State variations	Special provisions	Excepted Quantity	Passenger Aircraft		Cargo Aircraft	
									Forbidden	P Q	Forbidden	C Q
Vanadium tetrachloride	2444	8		I			A1		Forbidden (850)	Forbidden (0.5 L)	854	2.5 L
Hydrazine, anhydrous	2029	8	3, 6.1	i					Forbidden	Forbidden	854	2.5 L
Maleic anhydride, molten	2215	8		III					Forbidden	Forbidden	Forbidden	Forbidden
Titanium tetrachloride	1838	8		II			A2, A223		Forbidden (851)	Forbidden (1 L)	855	30 L
Blue asbestos	2212	9		II			A61		Forbidden	Forbidden	Forbidden	Forbidden
Brown asbestos	2212	9		II			A61		Forbidden	Forbidden	Forbidden	Forbidden
Elevated temperature liquid, n.o.s.	3257	9		III			A205		Forbidden	Forbidden	Forbidden	Forbidden
Elevated temperature solid, n.o.s.	3258	9		III			A205		Forbidden	Forbidden	Forbidden	Forbidden
Engines, internal combustion	3166	9					A67, A70, A87, A118, A134		Forbidden	Forbidden	Forbidden (951)	
Vehicles, flammable gas powered	3166	9					A67, A70, A87, A118, A120, A134		Forbidden	Forbidden	Forbidden (951)	

APPENDIX B

GENERAL PACKING REQUIREMENTS

6.1 GENERAL REQUIREMENTS FOR SELF-REACTIVE SUBSTANCES

Unless otherwise provided in these Instructions, the packagings used for self-reactive substances of Division 4.1 must meet Packing Group II requirements. To avoid unnecessary confinement, metal packaging meeting Packing Group I requirements must not be used.

7.1 GENERAL REQUIREMENTS FOR ORGANIC PEROXIDES

7.1.1 Unless otherwise provided in these Instructions, the packaging used for goods of Division 5.2 must meet Packing Group II requirements. To avoid unnecessary confinement, metal packaging meeting Packing Group I requirements must not be used.

7.1.2 Venting of packages is not permitted for air transport.

7.1.3 The packaging of organic peroxides presenting an explosive subsidiary risk must comply with the provisions of 4;3.2.2 and 4;3.2.3.

APPENDIX C
SUMMARY TABLE

Flammable Liquid Class 3			
3	6.1	I	350
	6.1	II	352
	none	I	350
	none	III	354
Flammable Solids Class 4.1			
4.1 Self-reactive			Temperature controlled
4.1 Self-reactive type B			
UN3344 and 3376			
4.1	6.1	I	none in TI for PAX
4.1		I	none in TI for PAX
4.1	5.1	II	other subrisks 6.1 and 8 in 445 no 5.1 currently
4.1	6.1	II	445
4.1	none	II	445
4.1	none	III	446
Substances liable to spontaneously combustion Class 4.2			
4.2	4.3	I	none in TI for PAX
4.2	6.1	I	none in TI for PAX
4.2	8	I	none in TI for PAX
4.2		I	
4.2	5.1	II	other subrisks 6.1 and 8 in 462 liquid and 466 solid no 5.1 currently
4.2	none	II	other subrisks 6.1 and 8 and none in 462 liquid and 466 solid no 5.1 currently
4.2	none	III	other subrisks 6.1 and 8 and none in 463 liquid and 468 solid no 5.1 currently

Class 4.3 Substances which, in contact with water, emit flammable gases			
4.3	3	I	none in TI for PAX
4.3	4.1	I	none in TI for PAX
4.3	4.2	I	none in TI for PAX
4.3	6.1	I	none in TI for PAX
4.3	8	I	none in TI for PAX
4.3	3,8	I	none in TI for PAX
4.3	none	I	none in TI for PAX
4.3	5.1	II	other subrisks 4.1, 4.2, 6.1 and 8 and none in 483 solid no 5.1 currently
4.3	none	II	Sodium batteries 3292
4.3	none	II	UN2835- 483
4.3	5.1	III	UN3133 not sure there are any of these
Oxidizer Class 5.1			
5.1	4.1	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	4.2	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	4.3	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	6.1	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	8	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	6.1,8	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	none	I	6.1,8 and none 550 for liquid and 557 for solid no 4.1,4.2,4.3 PGI for solid not liquid
	4.2	II	550 liquid, 558 solid for 6.1,8,none
	4.3	II	550 liquid, 558 solid for 6.1,8,none
	8	II	550 liquid, 558 solid
	none	II	550 liquid, 558 solid
Organic Peroxides Class 5.2			
5.2			Organic Peroxides temperature controlled
Toxic Substances			
6.1	3	I	PG I for PAX with a subrisk of 8, 651 for liquid
may be TIH	8	I	PG I for PAX with a subrisk of 8, 651 for liquid , 665 for solid
	3,8	I	PG I for PAX with a subrisk of 8, 651 for liquid
	none	I	652 for liquids and 665 for solids
	3	II	654 for liquids

	4.1	II	668 for solid
	8	II	653 for liquids and 668 for solids
	3,8	II	653 for liquids
	none	II	654 liquid and 669 for solids
	none	III	UN1583 Chloropicrin mixture
Corrosives Class 8			
8	4.3	I	UN3094 Corrosive liquid, water reactive, nos
	5.1	I	no PG I with a 5.1 subrisk
	6.1	I	850 for liquids
	3 and 6.1	I	UN2029 Hydrazine
	5.1,6.1	I	UN2032 Nitric acid, red fuming
	none	I	liquid 850 solid 858
	3	II	liquid 850
	5.1	II	UN1802 Perchloric acid
	6.1	II	851 liquid
	none	II	851 liquid 859 solid
	none	III	UN2215 Maleic anhydride, molten
Miscellaneous Class 9			
9		II	UN2212 Asbestos
		III	3257 Elevated temperature liquid
		III	3258 elevated temperature solid
			3166 Engines internal combustion
			3166 Vehicles flammable gas powered

— END —