



危险物品专家组 (DGP)

第二十三次会议

2011年10月11日至21日，蒙特利尔

议程项目3：拟定对《危险物品安全航空运输技术细则补篇》(Doc 9284SU号文件)的修订建议，以便纳入2013年—2014年版

修改1类危险物品的信息

(由J. McLaughlin提交)

摘要

本文件建议对《技术细则》补篇当中有关1类危险物品进行修订。

危险物品专家组的行动：请危险物品专家组考虑建立一个工作组在DGP/23期间开会。工作组的目的是向专家组提交一份关于补编当中1类危险物品的建议，供危险物品专家组通过。DGP/23期间所做的修改将使其纳入下一版补篇之中。

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 Class 1 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 — Class 1 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 Class 1 dangerous goods.

Appendix C — Summary Sheet: For Class 1 dangerous goods, an outline by 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.

Appendix D — Packing Instructions (from the UN Model Regulations): These are the current UN packing instructions. In the final version, the particular packing requirement (PPR) designationS would be removed, as they are not applicable to the Technical Instructions.

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

CLASS 1 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
Samples, explosive*	0190	1							Forbidden (101)		Forbidden (101)	
Barium azide	0224	1.1A	6.1						Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Diazodinitrophenol, wetted	0074	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Guanyl nitrosaminoguanylidene hydrazine, wetted	0113	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Guanyl nitrosaminoguanyltetrazene, wetted	0114	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Lead azide, wetted	0129	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Lead styphnate, wetted	0130	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Lead trinitroresorcinate, wetted	0130	1.1A					A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Mercury fulminate, wetted	0135	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Substances, explosive, n.o.s.*	0473	1.1A					A62		Forbidden (101)		Forbidden (101)	
Tetrazene, wetted	0114	1.1A					A211		Forbidden (110 (a)(b))		Forbidden (110 (a)(b))	
Boosters with detonator	0225	1.1B							Forbidden (133)		Forbidden (133)	
Components, explosive train, n.o.s.*	0461	1.1B					A62		Forbidden (101)		Forbidden (101)	
Detonator assemblies, non-electric	0360	1.1B							Forbidden (131)		Forbidden (131)	
Detonators for ammunition	0073	1.1B							Forbidden (133)		Forbidden (133)	
Detonators, electric	0030	1.1B							Forbidden (131)		Forbidden (131)	
Detonators, non-electric	0029	1.1B							Forbidden (131)		Forbidden (131)	

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
Fuzes, detonating	0106	1.1B								Forbidden (141)		Forbidden (141)	
Primers, cap type	0377	1.1B								Forbidden (133)		Forbidden (133)	
Articles, explosive, n.o.s.*	0462	1.1C						A62		Forbidden (101)		Forbidden (101)	
Cartridges for weapons, blank	0326	1.1C								Forbidden (130)		Forbidden (130)	
Charges, propelling	0271	1.1C								Forbidden (143)		Forbidden (143)	
Charges, propelling, for cannon	0279	1.1C								Forbidden (130)		Forbidden (130)	
Powder cake, wetted	0433	1.1C						A211		Forbidden (111)		Forbidden (111)	
Powder paste, wetted	0433	1.1C						A211		Forbidden (111)		Forbidden (111)	
Powder, smokeless	0160	1.1C								Forbidden (114 b)		Forbidden (114 b)	
Propellant, liquid	0497	1.1C						A206		Forbidden (115)		Forbidden (115)	
Propellant, solid	0498	1.1C								Forbidden (114 b)		Forbidden (114 b)	
Rocket motors	0280	1.1C								Forbidden (130)		Forbidden (130)	
Substances, explosive, n.o.s.*	0474	1.1C						A62		Forbidden (101)		Forbidden (101)	
Dinitrophenol	0076	1.1D	6.1							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Nitroglycerin, desensitized	0143	1.1D	6.1					A211, A217		Forbidden (115)		Forbidden (115)	
Ammonium nitrate	0222	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Ammonium perchlorate	0402	1.1D						A22		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Ammonium picrate	0004	1.1D								Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Articles, explosive, n.o.s.*	0463	1.1D								Forbidden (101)		Forbidden (101)	
Black powder	0027	1.1D								Forbidden (113)		Forbidden (113)	
Black powder in pellets	0028	1.1D								Forbidden (113)		Forbidden (113)	
Black powder, compressed	0028	1.1D								Forbidden (113)		Forbidden (113)	

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
Bombs	0034	1.1D								Forbidden (130)		Forbidden (130)	
Bombs, photo-flash	0038	1.1D								Forbidden (130)		Forbidden (130)	
Boosters	0042	1.1D								Forbidden (132(a)(b))		Forbidden (132(a)(b))	
Bursters	0043	1.1D								Forbidden (133)		Forbidden (133)	
Charges, bursting, plastics bonded	0457	1.1D								Forbidden (130)		Forbidden (130)	
Charges, demolition	0048	1.1D								Forbidden (130)		Forbidden (130)	
Charges, depth	0056	1.1D								Forbidden (130)		Forbidden (130)	
Charges, explosive, commercial	0442	1.1D								Forbidden (137)		Forbidden (137)	
Charges, shaped, flexible, linear	0288	1.1D								Forbidden (138)		Forbidden (138)	
Charges, shaped_	0059	1.1D						A2		Forbidden (137)		Forbidden (137)	Forbidden (75 KG)
Charges, supplementary, explosive	0060	1.1D								Forbidden (132 (a)(b))		Forbidden (132 (a)(b))	
Cord, detonating	0065	1.1D						A2		Forbidden (139)		Forbidden (139)	Forbidden (75 KG)
Cord, detonating	0290	1.1D								Forbidden (139)		Forbidden (139)	
Cyclonite and cyclotetramethylenet etranitramine mixture, desensitized	0391	1.1D						A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Cyclonite and cyclotetramethylenet etranitramine mixture, wetted	0391	1.1D						A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Cyclonite, desensitized	0483	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Cyclonite, wetted	0072	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Cyclotetramethylene-tetranitramine, wetted	0226	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Cyclotetramethylene-tetranitramine, desensitized	0484	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	

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
Cyclotrimethylenetri nitramine and cyclotetramethylenet etranitramine mixture, desensitized	0391	1.1D						A211		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Cyclotrimethylenetri nitramine and cyclotetramethylenet etranitramine mixture, wetted	0391	1.1D						A211		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Cyclotrimethylenetri nitramine, desensitized	0483	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Cyclotrimethylenetri nitramine, wetted	0072	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Diethyleneglycol dinitrate, desensitized	0075	1.1D						A211		Forbidden (115)		Forbidden (115)	
DINGU	0489	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Dinitroglycoluril	0489	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Dinitroresorcinol	0078	1.1D								Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Dipicryl sulphide	0401	1.1D						A208		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Dipicrylamine	0079	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Explosive, blasting, type A	0081	1.1D								Forbidden (116)		Forbidden (116)	
Explosive, blasting, type B	0082	1.1D								Forbidden (116)		Forbidden (116)	
Explosive, blasting, type C	0083	1.1D						A212		Forbidden (116)		Forbidden (116)	
Explosive, blasting, type D	0084	1.1D								Forbidden (116)		Forbidden (116)	
Explosive, blasting, type E	0241	1.1D								Forbidden (116)		Forbidden (116)	
Fracturing devices, explosive	0099	1.1D						A2		Forbidden (134)		Forbidden (134)	Forbidden (75 KG)
Fuse, detonating	0290	1.1D								Forbidden (139)		Forbidden (139)	
Fuzes, detonating	0408	1.1D								Forbidden (141)		Forbidden (141)	
Grenades	0284	1.1D								Forbidden (141)		Forbidden (141)	

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
Gunpowder	0027	1.1D								Forbidden (113)		Forbidden (113)	
Gunpowder in pellets	0028	1.1D								Forbidden (113)		Forbidden (113)	
Gunpowder, compressed	0028	1.1D								Forbidden (113)		Forbidden (113)	
Hexanitrodiphenylamine	0079	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Hexanitrostilbene	0392	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Hexogen and cyclotetramethylenetranitramine mixture, desensitized	0391	1.1D						A211		Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
Hexogen and cyclotetramethylenetranitramine mixture, wetted	0391	1.1D						A211		Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
Hexogen, desensitized	0483	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Hexogen, wetted	0072	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Hexolite	0118	1.1D								Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Hexotol	0118	1.1D								Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Hexotonal	0393	1.1D								Forbidden (112 b)		Forbidden (112 b)	
Hexyl	0079	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
HMX, desensitized	0484	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
HMX, wetted	0226	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Jet perforating guns, charged	0124	1.1D								Forbidden (101)		Forbidden (101)	
Mannitol hexanitrate, wetted	0133	1.1D						A211		Forbidden (112 (a))		Forbidden (112 (a))	
Mines	0137	1.1D								Forbidden (130)		Forbidden (130)	
Nitro urea	0147	1.1D								Forbidden (112 b)		Forbidden (112 b)	

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
Nitrobenzotriazol	0385	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Nitrocellulose	0340	1.1D							Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
Nitrocellulose	0341	1.1D							Forbidden (112 b)		Forbidden (112 b)	
Nitroglycerin solution in alcohol	0144	1.1D							Forbidden (115)		Forbidden (115)	
Nitroguanidine	0282	1.1D							Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
Nitromannite, wetted	0133	1.1D					A211		Forbidden (112 (a))		Forbidden (112 (a))	
Nitrostarch	0146	1.1D							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Nitrotriazolone	0490	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
NTO	0490	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Octogen, desensitized	0484	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Octogen, wetted	0226	1.1D					A211		Forbidden (112 (a))		Forbidden (112 (a))	
Octol	0266	1.1D							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Octolite	0266	1.1D							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Octonal	0496	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Pentaerythrite tetranitrate	0411	1.1D					A210		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Pentaerythrite tetranitrate, desensitized	0150	1.1D					A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Pentaerythrite tetranitrate, wetted	0150	1.1D					A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	

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
Pentaerythritol tetranitrate	0411	1.1D						A210		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Pentaerythritol tetranitrate, desensitized	0150	1.1D						A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Pentaerythritol tetranitrate, wetted	0150	1.1D						A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
Pentolite	0151	1.1D								Forbidden (112 a, b, or c)		Forbidden (112 a, b, or c)	
PETN	0411	1.1D						A210		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
PETN, desensitized	0150	1.1D						A211		Forbidden (112 (a)(b))		Forbidden (112 (a)(b))	
PETN, wetted	0150	1.1D						A211		Forbidden (112 a or b)		Forbidden (112 a or b)	
Picramide	0153	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Picric acid	0154	1.1D						A208		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Picrite	0282	1.1D								Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Picryl chloride	0155	1.1D						A208		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Projectiles	0168	1.1D								Forbidden (130)		Forbidden (130)	
RDX and cyclotetramethylenet etranitramine mixture, desensitized	0391	1.1D						A211		Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
RDX and cyclotetramethylenet etranitramine mixture, wetted	0391	1.1D						A211		Forbidden (112 (a) (b))		Forbidden (112 (a) (b))	
RDX, desensitized	0483	1.1D								Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
RDX, wetted	0072	1.1D						A211		Forbidden (112 a)		Forbidden (112 a)	

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
Sounding devices, explosive	0374	1.1D							Forbidden (134)		Forbidden (134)	
Styphnic acid	0219	1.1D							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Styphnic acid, wetted	0394	1.1D							Forbidden (112 (a))		Forbidden (112 (a))	
Substances, explosive, n.o.s.*	0475	1.1D					A62		Forbidden (101)		Forbidden (101)	
Tetranitroaniline	0207	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Tetrazole	0504	1.1D							Forbidden (112 c)		Forbidden (112 c)	
Tetryl	0208	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
TNT	0209	1.1D					A208		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
TNT and hexanitrostilbene mixture	0388	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
TNT and trinitrobenzene mixture	0388	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
TNT mixture containing trinitrobenzene and hexanitrostilbene	0389	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Torpedoes	0451	1.1D							Forbidden (130)		Forbidden (130)	
Trinitroaniline	0153	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitroanisole	0213	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrobenzene	0214	1.1D					A208		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Trinitrobenzenesulphonic acid	0386	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrobenzoic acid	0215	1.1D					A208		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Trinitrochlorobenzene	0155	1.1D					A208		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	

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
Trinitrofluorenone	0387	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitro-m-cresol	0216	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitronaphthalene	0217	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrophenetole	0218	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrophenol	0154	1.1D					A208		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Trinitrophenylmethyl nitramine	0208	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitroresorcinol	0219	1.1D							Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Trinitroresorcinol, wetted	0394	1.1D							Forbidden (112 (a))		Forbidden (112 (a))	
Trinitrotoluene	0209	1.1D					A208		Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrotoluene and hexanitrostilbene mixture	0388	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrotoluene and trinitrobenzene mixture	0388	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Trinitrotoluene mixture containing trinitrobenzene and hexanitrostilbene	0389	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Tritonal	0390	1.1D							Forbidden (112 (b) (c))		Forbidden (112 (b) (c))	
Urea nitrate	0220	1.1D					A209		Forbidden (112 (a)(b)(c))		Forbidden (112 (a)(b)(c))	
Warheads, rocket	0286	1.1D							Forbidden (130)		Forbidden (130)	
Warheads, torpedo	0221	1.1D							Forbidden (130)		Forbidden (130)	
Articles, explosive, n.o.s.*	0464	1.1E					A62		Forbidden (101)		Forbidden (101)	

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
Cartridges for weapons	0006	1.1E								Forbidden (130)		Forbidden (130)	
Rockets	0181	1.1E								Forbidden (130)		Forbidden (130)	
Torpedoes	0329	1.1E								Forbidden (130)		Forbidden (130)	
Articles, explosive, n.o.s.*	0465	1.1F						A62		Forbidden (101)		Forbidden (101)	
Bombs	0033	1.1F								Forbidden (130)		Forbidden (130)	
Bombs, photo-flash	0037	1.1F								Forbidden (130)		Forbidden (130)	
Cartridges for weapons	0005	1.1F								Forbidden (130)		Forbidden (130)	
Grenades	0292	1.1F								Forbidden (141)		Forbidden (141)	
Mines	0136	1.1F								Forbidden (130)		Forbidden (130)	
Projectiles	0167	1.1F								Forbidden (130)		Forbidden (130)	
Rockets	0180	1.1F								Forbidden (130)		Forbidden (130)	
Sounding devices, explosive	0296	1.1F								Forbidden (134)		Forbidden (134)	
Torpedoes	0330	1.1F								Forbidden (130)		Forbidden (130)	
Warheads, rocket	0369	1.1F								Forbidden (130)		Forbidden (130)	
Articles, pyrotechnic	0428	1.1G								Forbidden (135)		Forbidden (135)	
Cartridges, flash	0049	1.1G								Forbidden (135)		Forbidden (135)	
Fireworks	0333	1.1G								Forbidden (135)		Forbidden (135)	
Flares, aerial	0420	1.1G								Forbidden (135)		Forbidden (135)	
Flares, surface	0418	1.1G								Forbidden (135)		Forbidden (135)	
Flash powder	0094	1.1G								Forbidden (113)		Forbidden (113)	
Igniters	0121	1.1G								Forbidden (142)		Forbidden (142)	
Signals, distress	0194	1.1G								Forbidden (135)		Forbidden (135)	
Signals, railway track, explosive	0192	1.1G								Forbidden (135)		Forbidden (135)	
Signals, smoke	0196	1.1G								Forbidden (135)		Forbidden (135)	

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
Substances, explosive, n.o.s.*	0476	1.1G						A62		Forbidden (101)		Forbidden (101)	
Bombs with flammable liquid	0399	1.1J								Forbidden (101)		Forbidden (101)	
Rockets, liquid fuelled	0397	1.1J								Forbidden (101)		Forbidden (101)	
Torpedoes, liquid fuelled	0449	1.1J								Forbidden (101)		Forbidden (101)	
Articles, explosive, n.o.s.*	0354	1.1L						A62		Forbidden (101)		Forbidden (101)	
Substances, explosive, n.o.s.*	0357	1.1L						A62		Forbidden (101)		Forbidden (101)	
Boosters with detonator	0268	1.2B								Forbidden (133)		Forbidden (133)	
Components, explosive train, n.o.s.*	0382	1.2B						A62		Forbidden (101)		Forbidden (101)	
Detonators for ammunition	0364	1.2B								Forbidden (133)		Forbidden (133)	
Fuzes, detonating	0107	1.2B								Forbidden (141)		Forbidden (141)	
Articles, explosive, n.o.s.*	0466	1.2C						A62		Forbidden (101)		Forbidden (101)	
Cartridges for weapons, blank	0413	1.2C								Forbidden (130)		Forbidden (130)	
Cartridges for weapons, inert projectile	0328	1.2C								Forbidden (130)		Forbidden (130)	
Cartridges, power device	0381	1.2C								Forbidden (134)		Forbidden (134)	
Charges, propelling	0415	1.2C								Forbidden (143)		Forbidden (143)	
Charges, propelling, for cannon	0414	1.2C								Forbidden (130)		Forbidden (130)	
Rocket motors	0281	1.2C								Forbidden (130)		Forbidden (130)	
Rockets	0436	1.2C								Forbidden (130)		Forbidden (130)	
Rockets	0502	1.2C								Forbidden (130)		Forbidden (130)	
Articles, explosive, n.o.s.*	0467	1.2D						A62		Forbidden (101)		Forbidden (101)	
Bombs	0035	1.2D								Forbidden (130)		Forbidden (130)	
Boosters	0283	1.2D								Forbidden (132 (a)(b))		Forbidden (132 (a)(b))	
Charges, bursting, plastics bonded	0458	1.2D								Forbidden (130)		Forbidden (130)	

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
Charges, explosive, commercial	0443	1.2D							Forbidden (137)		Forbidden (137)	
Charges, shaped_	0439	1.2D							Forbidden (137)		Forbidden (137)	
Cord, detonating	0102	1.2D							Forbidden (139)		Forbidden (139)	
Fuse, detonating	0102	1.2D							Forbidden (139)		Forbidden (139)	
Fuzes, detonating	0409	1.2D							Forbidden (141)		Forbidden (141)	
Grenades	0285	1.2D							Forbidden (141)		Forbidden (141)	
Mines	0138	1.2D							Forbidden (130)		Forbidden (130)	
Projectiles	0345	1.2D							Forbidden (130)		Forbidden (130)	
Projectiles	0169	1.2D							Forbidden (130)		Forbidden (130)	
Sounding devices, explosive	0375	1.2D							Forbidden (134)		Forbidden (134)	
Warheads, rocket	0287	1.2D							Forbidden (130)		Forbidden (130)	
Articles, explosive, n.o.s.*	0468	1.2E					A62		Forbidden (101)		Forbidden (101)	
Cartridges for weapons	0321	1.2E							Forbidden (130)		Forbidden (130)	
Rockets	0182	1.2E							Forbidden (130)		Forbidden (130)	
Articles, explosive, n.o.s.*	0469	1.2F					A62		Forbidden (101)		Forbidden (101)	
Bombs	0291	1.2F							Forbidden (130)		Forbidden (130)	
Cartridges for weapons	0007	1.2F							Forbidden (130)		Forbidden (130)	
Grenades	0293	1.2F							Forbidden (141)		Forbidden (141)	
Mines	0294	1.2F							Forbidden (130)		Forbidden (130)	
Projectiles	0426	1.2F							Forbidden (130)		Forbidden (130)	
Projectiles	0324	1.2F							Forbidden (130)		Forbidden (130)	
Rockets	0295	1.2F							Forbidden (130)		Forbidden (130)	
Sounding devices, explosive	0204	1.2F							Forbidden (134)		Forbidden (134)	
Ammunition, tear-producing	0018	1.2G	6.1 & 8						Forbidden (130)		Forbidden (130)	

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
Ammunition, illuminating	0171	1.2G								Forbidden (130)		Forbidden (130)	
Ammunition, incendiary	0009	1.2G								Forbidden (130)		Forbidden (130)	
Ammunition, smoke	0015	1.2G						A132		Forbidden (130)		Forbidden (130)	
Articles, pyrotechnic	0429	1.2G								Forbidden (135)		Forbidden (135)	
Bombs, photo-flash	0039	1.2G								Forbidden (130)		Forbidden (130)	
Fireworks	0334	1.2G								Forbidden (135)		Forbidden (135)	
Flares, aerial	0421	1.2G								Forbidden (135)		Forbidden (135)	
Flares, surface	0419	1.2G								Forbidden (135)		Forbidden (135)	
Grenades, practice	0372	1.2G								Forbidden (141)		Forbidden (141)	
Igniters	0314	1.2G								Forbidden (142)		Forbidden (142)	
Projectiles	0434	1.2G								Forbidden (130)		Forbidden (130)	
Rockets, line-throwing	0238	1.2G								Forbidden (130)		Forbidden (130)	
Signals, smoke	0313	1.2G								Forbidden (135)		Forbidden (135)	
Ammunition, incendiary, white phosphorus	0243	1.2H								Forbidden (130)		Forbidden (130)	
Ammunition, smoke, white phosphorus	0245	1.2H								Forbidden (130)		Forbidden (130)	
Bombs with flammable liquid	0400	1.2J								Forbidden (101)		Forbidden (101)	
Rocket motors, liquid fuelled	0395	1.2J								Forbidden (101)		Forbidden (101)	
Rockets, liquid fuelled	0398	1.2J								Forbidden (101)		Forbidden (101)	
Ammunition, toxic*	0020	1.2K	6.1							Forbidden (101)		Forbidden (101)	
Articles, explosive, n.o.s.*	0355	1.2L								Forbidden (101)		Forbidden (101)	
Articles, pyrophoric	0380	1.2L								Forbidden (101)		Forbidden (101)	
Contrivances, water-activated*	0248	1.2L								Forbidden (144)		Forbidden (144)	
Rocket motors with hypergolic liquids	0322	1.2L								Forbidden (101)		Forbidden (101)	
Substances, explosive, n.o.s.*	0358	1.2L						A62		Forbidden (101)		Forbidden (101)	

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
Dinitrophenolates	0077	1.3C	6.1						Forbidden (114 (a)(b))		Forbidden (114 (a)(b))	
Articles, explosive, n.o.s.*	0470	1.3C					A62		Forbidden (101)		Forbidden (101)	
Cartridges for weapons, blank	0327	1.3C							Forbidden (130)		Forbidden (130)	
Cartridges for weapons, inert projectile	0417	1.3C							Forbidden (130)		Forbidden (130)	
Cartridges, oil well	0277	1.3C							Forbidden (134)		Forbidden (134)	
Cartridges, power device	0275	1.3C							Forbidden (134)		134	75 KG
Cartridges, small arms	0417	1.3C							Forbidden (130)		Forbidden (130)	
Cartridges, small arms, blank	0327	1.3C							Forbidden (130)		Forbidden (130)	
Cases, combustible, empty, without primer	0447	1.3C							Forbidden (136)		Forbidden (136)	
Charges, propelling	0272	1.3C							Forbidden (143)		Forbidden (143)	
Charges, propelling, for cannon	0242	1.3C							Forbidden (130)		Forbidden (130)	
Deflagrating metal salts of aromatic nitro-derivatives, n.o.s.	0132	1.3C							Forbidden (114 (a)(b))		Forbidden (114 (a)(b))	
Dinitrosobenzene	0406	1.3C							Forbidden (114 b)		Forbidden (114 b)	
Hydroxybenzotriazole, anhydrous	0508	1.3C							Forbidden (114 b)		Forbidden (114 b)	
Nitrocellulose, plasticized	0343	1.3C					A213		Forbidden (111)		Forbidden (111)	
Nitrocellulose, wetted	0342	1.3C					A213		Forbidden (114 a)		Forbidden (114 a)	
Powder cake, wetted	0159	1.3C					A211		Forbidden (111)		Forbidden (111)	
Powder paste, wetted	0159	1.3C					A211		Forbidden (111)		Forbidden (111)	
Powder, smokeless	0161	1.3C							Forbidden (114 b)		Forbidden (114 b)	
Propellant, liquid	0495	1.3C					A206		Forbidden (115)		Forbidden (115)	
Propellant, solid	0499	1.3C							Forbidden (114 b)		Forbidden (114 b)	
Rocket motors	0186	1.3C							Forbidden (130)		130	220 KG
Rockets	0437	1.3C							Forbidden (130)		Forbidden (130)	

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
Rockets	0183	1.3C							Forbidden (130)		Forbidden (130)	
Sodium dinitro-o-cresolate	0234	1.3C					A208		Forbidden (114 (a) (b))		Forbidden (114 (a) (b))	
Sodium picramate	0235	1.3C							Forbidden (114 (a) (b))		Forbidden (114 (a) (b))	
Substances, explosive, n.o.s.*	0477	1.3C					A62		Forbidden (101)		Forbidden (101)	
Zirconium picramate	0236	1.3C							Forbidden (114 (a) (b))		Forbidden (114 (a) (b))	
Ammunition, tear-producing	0019	1.3G	6.1 & 8						Forbidden (130)		Forbidden (130)	
Ammunition, illuminating	0254	1.3G							Forbidden (130)		Forbidden (130)	
Ammunition, incendiary	0010	1.3G							Forbidden (130)		Forbidden (130)	
Ammunition, practice	0488	1.3G							Forbidden (130)		Forbidden (130)	
Ammunition, smoke	0016	1.3G					A132		Forbidden (130)		Forbidden (130)	
Articles, pyrotechnic	0430	1.3G							Forbidden (135)		Forbidden (135)	
Bombs, photo-flash	0299	1.3G							Forbidden (130)		Forbidden (130)	
Cartridges, flash	0050	1.3G							Forbidden (135)		135	75 KG
Cartridges, signal	0054	1.3G							Forbidden (135)		135	75 KG
Fireworks	0335	1.3G							Forbidden (135)		Forbidden (135)	
Flares, aerial	0093	1.3G							Forbidden (135)		135	75 KG
Flares, surface	0092	1.3G							Forbidden (135)		135	75 KG
Flash powder	0305	1.3G							Forbidden (113)		Forbidden (113)	
Fuse, non-detonating	0101	1.3G							Forbidden (140)		Forbidden (140)	
Fuzes, igniting	0315	1.3G							Forbidden (141)		Forbidden (141)	
Grenades, practice	0318	1.3G							Forbidden (141)		Forbidden (141)	
Igniters	0315	1.3G							Forbidden (142)		Forbidden (142)	

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
Primers, tubular	319	1.3G							Forbidden (133)		Forbidden (133)	
Projectiles	0424	1.3G							Forbidden (130)		Forbidden (130)	
Rockets, line-throwing	0240	1.3G							Forbidden (130)		130	75 KG
Signals, distress	0195	1.3G							Forbidden (135)		135	75 KG
Signals, railway track, explosive	0492	1.3G							Forbidden (135)		Forbidden (135)	
Signals, smoke	0487	1.3G							Forbidden (135)		Forbidden (135)	
Substances, explosive, n.o.s.*	0478	1.3G					A62		Forbidden (101)		Forbidden (101)	
Tracers for ammunition	0212	1.3G							Forbidden (133)		Forbidden (133)	
Ammunition, incendiary, white phosphorus	0244	1.3H							Forbidden (130)		Forbidden (130)	
Ammunition, smoke, white phosphorus	0246	1.3H							Forbidden (130)		Forbidden (130)	
Ammunition, incendiary	0247	1.3J							Forbidden (101)		Forbidden (101)	
Rocket motors, liquid fuelled	0396	1.3J							Forbidden (101)		Forbidden (101)	
Torpedoes, liquid fuelled	0450	1.3J							Forbidden (101)		Forbidden (101)	
Ammunition, toxic*	0021	1.3K	6.1						Forbidden (101)		Forbidden (101)	
Articles, explosive, n.o.s.*	0356	1.3L					A62		Forbidden (101)		Forbidden (101)	
Contrivances, water-activated*	0249	1.3L							Forbidden (144)		Forbidden (144)	
Rocket motors with hypergolic liquids	0250	1.3L							Forbidden (101)		Forbidden (101)	
Substances, explosive, n.o.s.*	0359	1.3L					A62		Forbidden (101)		Forbidden (101)	
Articles, explosive, n.o.s.*	0350	1.4B					A62		Forbidden (101)		Forbidden (101)	
Components, explosive train, n.o.s.*	0383	1.4B					A62		Forbidden (101)		101	75 KG
Detonator assemblies, non-electric	0361	1.4B							Forbidden (131)		131	75 KG
Detonators for ammunition	0365	1.4B							Forbidden (133)		133	75 KG
Detonators, electric	0255	1.4B							Forbidden (131)		131	75 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
Detonators, non-electric	0267	1.4B								Forbidden (131)		131	75 KG
Fuzes, detonating	0257	1.4B								Forbidden (141)		141	75 KG
Primers, cap type	0378	1.4B								Forbidden (133)		133	75 KG
Articles, explosive, n.o.s.*	0351	1.4C						A62		Forbidden (101)		101	75 KG
Cartridges for weapons, blank	0338	1.4C								Forbidden (130)		130	75 KG
Cartridges for weapons, inert projectile	0339	1.4C								Forbidden (130)		130	75 KG
Cartridges, oil well	0278	1.4C								Forbidden (134)		134	75 KG
Cartridges, power device	0278	1.4C								Forbidden (134)		134	75 KG
Cartridges, small arms	0339	1.4C								Forbidden (130)		130	75 KG
Cartridges, small arms, blank	0338	1.4C								Forbidden (130)		130	75 KG
Cases, cartridge, empty, with primer	0379	1.4C								Forbidden (136)		136	75 KG
Cases, combustible, empty, without primer	0446	1.4C								Forbidden (136)		136	75 KG
Charges, propelling	0491	1.4C								Forbidden (143)		143	75 KG
Mercaptotetrazol-1-acetic acid	0448	1.4C								Forbidden (114 b)		Forbidden (114 b)	
Propellant, solid	0501	1.4C								Forbidden (114 b)		Forbidden (114 b)	
Rockets	0438	1.4C								Forbidden (130)		130	75 KG
Substances, explosive, n.o.s.*	0479	1.4C						A62		Forbidden (101)		101	75 KG
Tetrazol-1-acetic acid	0407	1.4C								Forbidden (114 b)		Forbidden (114 b)	
Articles, explosive, n.o.s.*	0352	1.4D						A62		Forbidden (101)		101	75 KG
Charges, bursting, plastics bonded	0459	1.4D								Forbidden (130)		130	75 KG
Charges, explosive, commercial	0444	1.4D								Forbidden (137)		137	75 KG
Charges, shaped, flexible, linear	0237	1.4D								Forbidden (138)		138	75 KG
Charges, shaped_	0440	1.4D						A1		Forbidden (137)	Forbidden (25 KG)	137	75 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
Cord, detonating	0289	1.4D						A1		Forbidden (139)	Forbidden (25 KG)	139	75 KG
Cord, detonating, mild effect	0104	1.4D								Forbidden (140)	Forbidden (25 KG)	139	75 KG
Fuse, detonating, mild effect	0104	1.4D								Forbidden (139)		139	75 KG
Fuzes, detonating	0410	1.4D								Forbidden (141)		141	75 KG
Jet perforating guns, charged	0494	1.4D						A24		Forbidden (101)		101	75 KG
Projectiles	0347	1.4D								Forbidden (130)		130	75 KG
Projectiles	0344	1.4D								Forbidden (130)		130	75 KG
Substances, explosive, n.o.s.*	0480	1.4D						A62		Forbidden (101)		101	75 KG
Warheads, rocket	0370	1.4D								Forbidden (130)		130	75 KG
Articles, explosive, n.o.s.*	0471	1.4E						A62		Forbidden (101)		101	75 KG
Cartridges for weapons	0412	1.4E								Forbidden (130)		130	75 KG
Articles, explosive, n.o.s.*	0472	1.4F						A62		Forbidden (101)		Forbidden (101)	
Cartridges for weapons	0348	1.4F								Forbidden (130)		Forbidden (130)	
Projectiles	0427	1.4F								Forbidden (130)		Forbidden (130)	
Warheads, rocket	0371	1.4F								Forbidden (130)		Forbidden (130)	
Ammunition, tear-producing	0301	1.4G	6.1 & 8							Forbidden (130)		130	75 KG
Air bag inflators	0503	1.4G						A32, A56		Forbidden (135)		135	75 KG
Air bag modules	0503	1.4G						A32, A56		Forbidden (135)		135	75 KG
Ammunition, illuminating	0297	1.4G								Forbidden (130)		130	75 KG
Ammunition, incendiary	0300	1.4G								Forbidden (130)		130	75 KG
Ammunition, practice	0362	1.4G								Forbidden (130)		130	75 KG
Ammunition, proof	0363	1.4G								Forbidden (130)		130	75 KG
Ammunition, smoke	0303	1.4G						A132		Forbidden (130)		130	75 KG
Articles, explosive, n.o.s.*	0353	1.4G						A62		Forbidden (101)		101	75 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
Articles, pyrotechnic	0431	1.4G								Forbidden (135)		135	75 KG
Cartridges, signal	0312	1.4G								Forbidden (135)		135	75 KG
Cord, igniter	0066	1.4G						A1		Forbidden (140)	Forbidden (25 KG)	140	75 KG
Fireworks	0336	1.4G								Forbidden (135)		135	75 KG
Flares, aerial	0403	1.4G								Forbidden (135)		135	75 KG
Fuse, igniter	0103	1.4G								Forbidden (140)		140	75 KG
Fuzes, igniting	0317	1.4G								Forbidden (141)		141	75 KG
Grenades, practice	0452	1.4G								Forbidden (141)		141	75 KG
Igniters	0325	1.4G								Forbidden (142)		142	75 KG
Primers, tubular	0320	1.4G								Forbidden (133)		133	75 KG
Projectiles	0425	1.4G								Forbidden (130)		130	75 KG
Projectiles	0435	1.4G								Forbidden (130)		130	75 KG
Rockets, line-throwing	0453	1.4G								Forbidden (130)		130	75 KG
Seat-belt pretensioners	0503	1.4G						A32, A56		Forbidden (135)		135	75 KG
Seat-belt pretensioners	0503	1.4G						A32, A56		Forbidden (135)		Forbidden (135)	
Signal devices, hand	0191	1.4G								Forbidden (135)		135	75 KG
Signals, distress	0505	1.4G								Forbidden		135	75 KG
Signals, railway track, explosive	0493	1.4G								Forbidden (135)		135	75 KG
Signals, smoke	0197	1.4G								Forbidden (135)		135	75 KG
Substances, explosive, n.o.s.*	0485	1.4G						A62		Forbidden (101)		101	75 KG
Tracers for ammunition	0306	1.4G								Forbidden (133)		133	75 KG
Agent, blasting type B	0331	1.5D								Forbidden (116)		Forbidden (116)	
Agent, blasting type E	0332	1.5D								Forbidden (116)		Forbidden (116)	
Explosive, blasting, type B	0331	1.5D						A207		Forbidden (116)		Forbidden (116)	

<i>Name</i>	<i>UN No.</i>	<i>Class or division</i>	<i>Sub. risk</i>	<i>P G</i>	<i>Labels</i>	<i>State variations</i>	<i>Special provisions</i>	<i>Excepted Quantity</i>	<i>Passenger Aircraft</i>		<i>Cargo Aircraft</i>	
									<i>Forbidden</i>	<i>P Q</i>	<i>Forbidden</i>	<i>C Q</i>
Explosive, blasting, type E	0332	1.5D					A207		Forbidden (116)		Forbidden (116)	
Substances, EVI, n.o.s.*	0482	1.5D							Forbidden (101)		Forbidden (101)	
Substances, explosive, very insensitive, n.o.s.*	0482	1.5D					A62		Forbidden (101)		Forbidden (101)	
Articles, EEI	0486	1.6N							Forbidden (101)		Forbidden (101)	
Articles, explosive, extremely insensitive	0486	1.6N							Forbidden (101)		Forbidden (101)	

APPENDIX B

GENERAL PACKING REQUIREMENTS

3.2 GENERAL REQUIREMENTS

3.2.1 The general packing requirements of 4;1 must be met.

3.2.2 All packagings for Class 1 explosives must be so designed and constructed that:

- a) they will protect the explosives, prevent them from escaping and cause no increase in the risk of unintended ignition or initiation when subjected to normal conditions of transport including foreseeable changes in temperature, humidity and pressure;
- b) the complete package can be handled safely in normal conditions of transport; and
- c) the packages will withstand any loading imposed on them by foreseeable stacking to which they will be subject during transport so that they do not add to the risk presented by the explosives, the containment function of the packagings is not harmed, and they are not distorted in a way or to an extent which will reduce their strength or cause instability of a stack.

3.2.3 All explosive substances and articles, as prepared for transport, must have been classified in accordance with the procedures detailed in 2;1.5.

3.3 GENERAL PACKING PROVISIONS

3.3.1 The general provisions detailed below are in addition to those in Part 4, Chapter 1.

3.3.1.1 The closure device of packagings containing liquid explosives must ensure a double protection against leakage.

3.3.1.2 The closure device of metal drums must include a suitable gasket; if a closure device includes a screw-thread, the ingress of explosive substances into the screw-thread must be prevented.

3.3.1.3 Packagings for water soluble substances must be water-resistant.

3.3.1.4 When the packaging includes a double envelope filled with water which may freeze during transport, a sufficient quantity of an anti-freeze agent must be added to the water to prevent freezing. Anti-freeze that could create a fire hazard because of its inherent flammability must not be used.

3.3.1.5 Nails, staples and other closure devices made of metal without protective covering must not penetrate to the inside of the outer packaging unless the inner packaging adequately protects the explosives against contact with the metal.

3.3.1.6 Inner packagings, fittings and cushioning materials and the placing of explosive substances or articles in packages must be accomplished in a manner which prevents the explosive substances or articles from becoming loose in the outer packaging under normal conditions of transport. Metallic components of articles must be prevented from making contact with metal packagings. Articles containing explosive substances not enclosed in an outer casing must be separated from each other in order to prevent friction and impact. Padding, trays, partitioning in the inner or outer packaging, mouldings or receptacles may be used for this purpose.

3.3.1.7 Packagings must be made of materials compatible with, and impermeable to, the explosives contained in the package, so that neither interaction between the explosives and the packaging materials, nor leakage, causes the explosive to become unsafe to transport, or the hazard division or compatibility group to change.

3.3.1.8 The ingress of explosive substances into the recesses of seamed metal packagings must be prevented.

3.3.1.9 Plastic packagings must not be liable to generate or accumulate sufficient static electricity so that a discharge could cause the packaged explosive substances or articles to initiate, ignite or function.

3.3.1.10 Explosive substances must not be packed in inner or outer packagings where the differences in internal and external pressures, due to thermal or other effects, could cause an explosion or rupture of the package.

3.3.1.11 Whenever loose explosive substances or the explosive substance of an uncased or partly cased article may come into contact with the inner surface of metal packagings (1A2, 1B2, 4A, 4B and metal receptacles), the metal packaging must be provided with an inner liner or coating (see 1.1.3).

3.3.1.12 Packing Instruction 101 may be used for any explosive provided the package has been approved by an

appropriate national authority regardless of whether the packaging complies with the packing instruction assignment in the Dangerous Goods List.

3.3.1.13 Electro-explosive devices must be adequately protected against electro-magnetic radiation and stray currents.

3.3.1.14 Large and robust explosive articles, normally intended for military use, without their means of initiation or without their means of initiation containing at least two effective protective features, may be carried unpackaged. When such articles have propelling charges or are self-propelled, their ignition systems must be protected against stimuli encountered during normal conditions of transport. A negative result in Test Series 4 on an unpackaged article indicates that the article can be considered for transport unpackaged. Such unpackaged articles may be fixed to cradles or contained in crates or other suitable handling, storage or launching devices in such a way that they will not become loose during normal conditions of transport.

3.3.1.14.1 Where such large explosive articles are, as part of their operational safety and suitability tests, subjected to test regimes that meet the intentions of these Instructions and such tests have been successfully undertaken, the appropriate national authority may approve such articles to be transported under these Instructions.

Note 1.— The term receptacle used in the Inner and Intermediate packaging columns of this table includes boxes, bottles, cans, drums, jars and tubes, including any means of closure.

Note 2.— Reels are devices made of plastics, wood, fibreboard, metal or other suitable material comprising a central spindle with, or without, side walls at each end of the spindle. Articles and substances can be wound onto the spindle and may be retained by side walls.

Note 3.— Trays are sheets of metal, plastics, wood, fibreboard or other suitable material which are placed in the inner, intermediate or outer packaging and achieve a close-fit in such packaging. The surface of the tray may be shaped so that packagings or articles can be inserted, held secure and separated from each other.

APPENDIX C

SUMMARY SHEET

Class / Division	Subrisk	Packing Group	Comments or current assignment of sim substances
EXPLOSIVES CLASS 1			
1.1A	6.1		Forbidden
	none		Forbidden
1.1B	none		Forbidden
1.1C	none		Forbidden
1.1D	6.1		Forbidden
	none		Forbidden
1.1E	none		Forbidden
1.1F	none		Forbidden
1.1G	none		Forbidden
1.1J	none		Forbidden
1.1L	none		Forbidden
1.2B	none		Forbidden
1.2C	none		Forbidden
1.2D	none		Forbidden
1.2E	none		Forbidden
1.2F	none		Forbidden
1.2G	6.1 and 8		Forbidden
1.2G	none		Forbidden
1.2H	none		Forbidden
1.2J	none		Forbidden
1.2K	6.1		Forbidden
1.2L	none		Forbidden
1.3C	6.1		Forbidden
1.3C	none		Forbidden
1.3C	none		UN0186 Rocket motors Forbidden PAX CAO 220 KG
1.3G	6.1 and 8		Forbidden
1.3G	none		Forbidden
1.3G	none		UN0050, UN0054, UN0093, UN0092, UN0240, UN0195 Forbidden PAX CAO 75 KG
1.3H	none		Forbidden
1.3J	none		Forbidden
1.3K	6.1		Forbidden
1.3L	none		Forbidden

Class / Division	Subrisk	Packing Group	Comments or current assignment of sim substances
1.4B	none		UN0383 Forbidden
1.4B	none		Forbidden PAX CAO 75 KG
1.4C	none		Forbidden PAX CAO 75 KG
1.4C	none		UN0448, UN0501, UN0407 Forbidden
1.4D	none		Forbidden PAX CAO 75 KG
1.4E	none		Forbidden PAX CAO 75 KG
1.4F	none		Forbidden
1.4G	6.1 and 8		Forbidden PAX CAO 75 KG
	none		Forbidden PAX CAO 75 KG
	none		UN 0503 Forbidden
1.5D			Forbidden
