



危险物品专家组 (DGP)

第二十七次会议

2019年9月16日至20日，蒙特利尔

议程项目2： 管理航空特有的安全风险和查明异常情况

2.3： 如有必要，拟定对《危险物品安全航空运输技术细则补篇》（Doc 9284SU 号文件）的修订提案，以便纳入 2021 年—2022 年版

对《技术细则补篇》S-7.2.2.2 中 6.1 项清单的修订

（由 S. Bitossi 提交）

摘要

本工作文件要求审查《危险物品安全航空运输技术细则补篇》（《补篇》）第 S-7.2.2.2 部分中 6.1 项列出的除外的 UN 编号。

危险物品专家组的行动：请危险物品专家组考虑设立一个工作组，对照《技术细则》表 3-1（危险物品清单）中包装等级 III 项别 6.1 中的危险物品完整清单，对《补篇》第 S-7.2.2.2 部分中 6.1 项的清单进行技术审查。

1. INTRODUCTION

1.1 In Part 7; 2.1.2 of the Technical Instructions, the State of the Origin and State of the Operator may approve the carriage of certain dangerous goods in the main deck cargo compartments of passenger aircraft, where the aircraft does not meet the requirements of a Class B or Class C cargo compartment.

1.2 This approval is subject to the conditions specified in S-7;2.2 of the Supplement, and more specifically, the approval is restricted to the dangerous goods listed within S-7;2.2.2 (see Appendix A to this working paper).

* 仅提供了摘要和附录的翻译。

1.3 Australia is currently updating its dangerous goods regulations and subsequently, conducted a review of the list of Division 6.1 UN numbers noted within S-7:2.2.2, which are excluded for carriage on a passenger aircraft in a main deck cargo compartment other than a Class B or Class C compartment.

1.4 As part of this update, Australia noted that UN 3283 — **Selenium compound, solid, n.o.s.** (Packing Group III only) is listed as one of the excluded dangerous goods classified as toxic substances under Division 6.1 within S-7:2.2.2. However, UN 3440 — **Selenium compound, liquid, n.o.s.** is not included within this list.

1.5 Upon further review, there are potentially other UN numbers which should be reviewed by the DGP for addition to the excluded list within S-7:2.2.2 for Division 6.1.

1.6 The DGP should note that the highest UN number contained within S-7:2.2.2 across all classes and divisions, is UN 3363 (with exception of UN 8000).

1.7 When cross referenced against the list of UN numbers contained within Attachment 1, Chapter 1, Lists of Proper Shipping Names of the Technical Instructions, the highest UN number (aside from UN 8000) is UN 3548. This results in a difference of 180 UN numbers, of which 24 are potentially new Division 6.1 entries.

1.8 Appendix B contains a complete list of UN numbers in Hazard Division 6.1, Packing Group III only, for review.

2. **ACTION BY THE DGP**

2.1 The DGP is invited to consider forming an out-of-session working group to review the list provided in Appendix B to this working paper for potential inclusion into the list within S-7:2.2.2 of the Supplement for Division 6.1 (as shown in Appendix A to this working paper).

附录 A

《技术细则补篇》第 S-7 部分的拟议修订

第 S-7 部分

国家对运营人的责任

《《技术细则》第7部分的补充内容》

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第 2 章

仓储和装载

2.2 客机装载

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2.2.2 危险物品仅限于以下的类或项：

1.4S 项

2.1 项 — 仅限于气溶胶

2.2 项 (UN 2037、UN 2073 和 UN 2857 除外)

第 3 类 (UN 1112、UN 2047、UN 2059、UN 2332、UN 3054 和 UN 3269 除外)

4.1 项 (UN 1309、UN 1313、UN 1314、UN 1318、UN 1324、UN 1330、UN 1338、UN 1353、UN 1869、UN 2000、UN 2213、UN 2714、UN 2715、UN 2878、UN 3089 和 UN 3241 除外)

5.1 项 (UN 1458、UN 1459、UN 1467、UN 1481、UN 1482、UN 1483、UN 2427、UN 2428、UN 2429、UN 2469、UN 2726、UN 2984、UN 3210、UN 3211、UN 3213、UN 3215、UN 3216、UN 3218 和 UN 3219 除外)

6.1 项 (UN 1549、UN 1550、UN 1551、UN 1556、UN 1557、UN 1593、UN 1599、UN 1655、UN 1686、UN 1690、UN 1710、UN 1812、UN 1887、UN 1888、UN 1897、UN 1935、UN 2024、UN 2025、UN 2026、UN 2074、UN 2077、UN 2233、UN 2501、UN 2505、UN 2515、UN 2609、UN 2655、UN 2656、UN 2674、UN 2713、UN 2747、UN 2785、UN 2788、UN 2821、UN 2831、UN 2853、UN 2854、UN 2855、UN 2856、UN 2871、UN 2874、UN 3141、UN 3144、UN 3146、UN 3283 和 UN 3293 除外)

6.2 项

第 7 类 — 仅限于放射性物质的例外包装件和划归为 I 级白色的包装件

第 8 类 (UN 1731、UN 1740、UN 1755、UN 1757、UN 1783、UN 1787、UN 1788、UN 1789、UN 1814、UN 1819、UN 1824、UN 1848、UN 1908、UN 2430、UN 2496、UN 2508、UN 2564、UN 2578、UN 2585、UN 2586、UN 2672、UN 2677、UN 2679、UN 2681、UN 2693、UN 2790、UN 2803、UN 2809、UN 2837、UN 2869、UN 3145、UN 3253 和 UN 3320 除外)

附录 A

第 9 类 (UN 1931、UN 1941、UN 1990、UN 2211、UN 2590、UN 3268、UN 3314、UN 3316、UN 3363 和 UN 8000 除外)

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APPENDIX B

LIST OF DANGEROUS GOODS IN DIVISION 6.1, PACKING GROUP III

- (a) Red bracketed UN numbers are for review and decision for inclusion in S-7;2.2.2. Those not in red and brackets are already included in S-7;2.2.2.
- (b) Proper shipping name (excluding lightface type in the list)
- (c) Hazard class / division and subsidiary hazard (if applicable)
- (d) Status of UN number “NEW” means a UN number after UN3363 and yet to be reviewed for inclusion in S-7;2.2.2.
- (e) Decision of the DGP: **I** = Include in S-7;2.2.2 or **D** = Do not include in S-7;2.2.2

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
2831	1,1,1-Trichloroethane	6.1		
[2716]	1,4-Butynediol	6.1		
[2518]	1,5,9-Cyclododecatriene	6.1		
[2688]	1-Bromo-3-chloropropane	6.1		
[3418]	[2,4-Toluylenediamine solution]	6.1	NEW	
[1709]	2,4-Toluylenediamine, solid	6.1		
[2946]	2-Amino-5-diethylaminopentane	6.1		
[2273]	2-Ethylaniline	6.1		
[2300]	2-Methyl-5-ethylpyridine	6.1		
[2942]	2-Trifluoromethylaniline	6.1		
[2849]	3-Chloropropanol-1	6.1		
[2651]	4,4'-Diaminodiphenylmethane	6.1		
[3410]	4-Chloro-o-toluidine hydrochloride solution	6.1	NEW	
[1579]	4-Chloro-o-toluidine hydrochloride, solid	6.1		
2785	4-Thiapentanal	6.1		
2713	Acridine	6.1		
[3426]	Acrylamide solution	6.1	NEW	
2074	Acrylamide, solid	6.1		
[2205]	Adiponitrile	6.1		
[3140]	Alkaloid salts, liquid, n.o.s.*	6.1		
[1544]	Alkaloid salts, solid, n.o.s.*	6.1		
[3140]	Alkaloids, liquid, n.o.s.*	6.1		
[1544]	Alkaloids, solid, n.o.s.*	6.1		
[2937]	alpha-Methylbenzyl alcohol, liquid	6.1		
[3438]	alpha-Methylbenzyl alcohol, solid	6.1	NEW	
2077	alpha-Naphthylamine	6.1		
[2512]	Aminophenols	6.1		
[3424]	Ammonium dinitro-o-cresolate solution	6.1	NEW	
2505	Ammonium fluoride	6.1		

附录 B

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
2854	Ammonium fluorosilicate	6.1		
[1548]	Aniline hydrochloride	6.1		
[2431]	Anisidines	6.1		
3141	Antimony compound, inorganic, liquid, n.o.s.*	6.1		
1549	Antimony compound, inorganic, solid, n.o.s.*	6.1		
1550	Antimony lactate	6.1		
1551	Antimony potassium tartrate	6.1		
2871	Antimony powder	6.1		
1556	Arsenic compound, liquid, n.o.s.*	6.1		
1557	Arsenic compound, solid, n.o.s.*	6.1		
[2994]	Arsenical pesticide, liquid, toxic*	6.1		
[2993]	Arsenical pesticide, liquid, toxic, flammable	6.1 (3)		
[2759]	Arsenical pesticide, solid, toxic*	6.1		
[1564]	Barium compound, n.o.s.*	6.1		
[1884]	Barium oxide	6.1		
[1566]	Beryllium compound, n.o.s.*	6.1		
[3411]	beta-Naphthylamine solution	6.1	NEW	
[3016]	Bipyridilium pesticide, liquid, toxic*	6.1		
[3015]	Bipyridilium pesticide, liquid, toxic, flammable,	6.1 (3)		
[2781]	Bipyridilium pesticide, solid, toxic*	6.1		
1887	Bromochloromethane	6.1		
2515	Bromoform	6.1		
[2667]	Butyltoluenes	6.1		
[2570]	Cadmium compound	6.1		
[2992]	Carbamate pesticide, liquid, toxic*	6.1		
[2991]	Carbamate pesticide, liquid, toxic, flammable,	6.1 (3)		
[2757]	Carbamate pesticide, solid, toxic*	6.1		
[2516]	Carbon tetrabromide	6.1		
2233	Chloroanisidines	6.1		
[2235]	Chlorobenzyl chlorides, liquid	6.1		
[3427]	Chlorobenzyl chlorides, solid	6.1	NEW	
[2669]	Chlorocresols solution	6.1		
1888	Chloroform	6.1		
[2237]	Chloronitroanilines	6.1		
[2433]	Chloronitrotoluenes, liquid	6.1		
[3457]	Chloronitrotoluenes, solid	6.1	NEW	
[2021]	Chlorophenols, liquid	6.1		
[2020]	Chlorophenols, solid	6.1		
[3429]	Chlorotoluidines, liquid	6.1	NEW	
[2239]	Chlorotoluidines, solid	6.1		
[3010]	Copper based pesticide, liquid, toxic*	6.1		
[3009]	Copper based pesticide, liquid, toxic, flammable,	6.1 (3)		
[2775]	Copper based pesticide, solid, toxic*	6.1		
[3026]	Coumarin derivative pesticide, liquid, toxic*	6.1		

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
[3025]	Coumarin derivative pesticide, liquid, toxic, flammable	6.1 (3)		
[3027]	Coumarin derivative pesticide, solid, toxic*	6.1		
1935	Cyanide solution, n.o.s.*	6.1		
[1588]	Cyanides, inorganic, solid, n.o.s.*	6.1		
[2872]	Dibromochloropropanes	6.1		
[2664]	Dibromomethane	6.1		
[2873]	Dibutylaminoethanol	6.1		
1593	Dichloromethane	6.1		
[1597]	Dinitrobenzenes, liquid	6.1		
1599	Dinitrophenol solution	6.1		
[3142]	Disinfectant, liquid, toxic, n.o.s.*	6.1		
[1601]	Disinfectant, solid, toxic, n.o.s.*	6.1		
[1602]	Dye intermediate, liquid, toxic, n.o.s.*	6.1		
[1602]	Dye intermediate, liquid, toxic, n.o.s.*	6.1		
[3143]	Dye intermediate, solid, toxic, n.o.s.*	6.1		
[3143]	Dye, solid, toxic, n.o.s.*	6.1		
[2525]	Ethyl oxalate	6.1		
[2941]	Fluoroanilines	6.1		
2856	Fluorosilicates, n.o.s.*	6.1		
2874	Furfuryl alcohol	6.1		
[2689]	Glycerol alpha-monochlorohydrin	6.1		
[2661]	Hexachloroacetone	6.1		
[2729]	Hexachlorobenzene	6.1		
[2279]	Hexachlorobutadiene	6.1		
[2875]	Hexachlorophene	6.1		
3293	Hydrazine, aqueous solution	6.1		
[2206]	Isocyanate solution, toxic, n.o.s.*	6.1		
[2206]	Isocyanates, toxic, n.o.s.*	6.1		
[2290]	Isophorone diisocyanate	6.1		
[1616]	Lead acetate	6.1		
[2291]	Lead compound, soluble, n.o.s.*	6.1		
2853	Magnesium fluorosilicate	6.1		
[1851]	Medicine, liquid, toxic, n.o.s.	6.1		
[3249]	Medicine, solid, toxic, n.o.s.	6.1		
[3012]	Mercury based pesticide, liquid, toxic*	6.1		
[3011]	Mercury based pesticide, liquid, toxic, flammable,	6.1 (3)		
[2777]	Mercury based pesticide, solid, toxic*	6.1		
2024	Mercury compound, liquid, n.o.s.*	6.1		
2025	Mercury compound, solid, n.o.s.*	6.1		
[3281]	Metal carbonyls, liquid, n.o.s.*	6.1		
[3466]	Metal carbonyls, solid, n.o.s.*	6.1	NEW	
[2299]	Methyl dichloroacetate	6.1		
[2533]	Methyl trichloroacetate	6.1		

附录 B

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
[2432]	N,N-Diethylaniline	6.1		
[2272]	N-Ethylaniline	6.1		
[2753]	N-Ethylbenzyltoluidines, liquid	6.1		
[3460]	N-Ethylbenzyltoluidines, solid	6.1	NEW	
[2274]	N-Ethyl-N-benzylaniline	6.1		
3144	Nicotine compound, liquid, n.o.s.*	6.1		
1655	Nicotine compound, solid, n.o.s.*	6.1		
[1656]	Nicotine hydrochloride, liquid	6.1		
[1656]	Nicotine hydrochloride, solution	6.1		
[3144]	Nicotine preparation, liquid, n.o.s.*	6.1		
1655	Nicotine preparation, solid, n.o.s.*	6.1		
[1658]	Nicotine sulphate solution	6.1		
[3276]	Nitriles, liquid, toxic, n.o.s.*	6.1		
[3439]	Nitriles, solid, toxic, n.o.s.*	6.1	NEW	
[2730]	Nitroanisoles, liquid	6.1		
[3458]	Nitroanisoles, solid	6.1	NEW	
[2732]	Nitrobromobenzenes, liquid	6.1		
[3459]	Nitrobromobenzenes, solid	6.1	NEW	
[3434]	Nitrocresols, liquid	6.1	NEW	
[2446]	Nitrocresols, solid	6.1		
[1663]	Nitrophenols	6.1		
[2660]	Nitrotoluidines (mono)	6.1		
[2294]	N-Methylaniline	6.1		
[1591]	o-Dichlorobenzene	6.1		
[3280]	Organoarsenic compound, liquid, n.o.s.*	6.1		
[3465]	Organoarsenic compound, solid, n.o.s.*	6.1	NEW	
[2996]	Organochlorine pesticide, liquid, toxic*	6.1		
[2995]	Organochlorine pesticide, liquid, toxic, flammable,	6.1 (3)		
[2761]	Organochlorine pesticide, solid, toxic*	6.1		
[3282]	Organometallic compound, liquid, toxic, n.o.s.*	6.1		
[3467]	Organometallic compound, solid, toxic, n.o.s.*	6.1	NEW	
[3278]	Organophosphorus compound, liquid, toxic, n.o.s.*	6.1		
[3464]	Organophosphorus compound, solid, toxic, n.o.s.*	6.1	NEW	
[3018]	Organophosphorus pesticide, liquid, toxic*	6.1		
[3017]	Organophosphorus pesticide, liquid, toxic, flammable,	6.1 (3)		
[2783]	Organophosphorus pesticide, solid, toxic*	6.1		
2788	Organotin compound, liquid, n.o.s.	6.1		
3146	Organotin compound, solid, n.o.s.	6.1		
[3020]	Organotin pesticide, liquid, toxic*	6.1		
[3019]	Organotin pesticide, liquid, toxic, flammable	6.1 (3)		
[2786]	Organotin pesticide, solid, toxic*	6.1		
[2903]	Pesticide, liquid, toxic, flammable	6.1 (3)		
[2902]	Pesticide, liquid, toxic, n.o.s.*	6.1		
[2588]	Pesticide, solid, toxic, n.o.s.*	6.1		

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
[2311]	Phenetidines	6.1		
2821	Phenol solution	6.1		
[3348]	Phenoxyacetic acid derivative pesticide, liquid, toxic*	6.1		
[3347]	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable	6.1 (3)		
[3345]	Phenoxyacetic acid derivative pesticide, solid, toxic	6.1		
[2470]	Phenylacetone, liquid	6.1		
[1673]	Phenylenediamines	6.1		
2026	Phenylmercuric compound, n.o.s.*	6.1		
[3413]	Potassium cyanide solution	6.1	NEW	
[3422]	Potassium fluoride solution	6.1	NEW	
1812	Potassium fluoride, solid	6.1		
2655	Potassium fluorosilicate	6.1		
[3352]	Pyrethroid pesticide, liquid, toxic	6.1		
[3351]	Pyrethroid pesticide, liquid, toxic, flammable	6.1 (3)		
[3349]	Pyrethroid pesticide, solid, toxic	6.1		
2656	Quinoline	6.1		
[2876]	Resorcinol	6.1		
[3440]	Selenium compound, liquid, n.o.s.*	6.1	NEW	
3283	Selenium compound, solid, n.o.s.*	6.1		
[2473]	Sodium arsenite	6.1		
1686	Sodium arsenite, aqueous solution	6.1		
[2659]	Sodium chloroacetate	6.1		
[3414]	Sodium cyanide solution	6.1	NEW	
[3415]	Sodium fluoride solution	6.1	NEW	
1690	Sodium fluoride, solid	6.1		
2674	Sodium fluorosilicate	6.1		
[3014]	Substituted nitrophenol pesticide, liquid, toxic*	6.1		
[3013]	Substituted nitrophenol pesticide, liquid, toxic, flammable,	6.1 (3)		
[2779]	Substituted nitrophenol pesticide, solid, toxic*	6.1		
[3284]	Tellurium compound, n.o.s.*	6.1		
2747	tert-Butylcyclohexyl chloroformate	6.1		
[2504]	Tetrabromoethane	6.1		
1897	Tetrachloroethylene	6.1		
[3006]	Thiocarbamate pesticide, liquid, toxic*	6.1		
[3005]	Thiocarbamate pesticide, liquid, toxic, flammable,	6.1 (3)		
[2771]	Thiocarbamate pesticide, solid, toxic*	6.1		
[3287]	Toxic liquid, inorganic, n.o.s.*	6.1		
[2810]	Toxic liquid, organic, n.o.s.*	6.1		
[3288]	Toxic solid, inorganic, n.o.s.*	6.1		
[2811]	Toxic solid, organic, n.o.s.*	6.1		
[3172]	Toxins, extracted from living sources, liquid, n.o.s.*	6.1		

UN NUMBER (a)	PROPER SHIPPING NAME (b)	CLASS/ DIV & SUB HAZ (c)	STATUS UN NUMBER (d)	DECISION (I / D) (e)
[3462]	Toxins, extracted from living sources, solid, n.o.s.*	6.1	NEW	
2609	Triallyl borate	6.1		
[2998]	Triazine pesticide, liquid, toxic*	6.1		
[2997]	Triazine pesticide, liquid, toxic, flammable,	6.1 (3)		
[2763]	Triazine pesticide, solid, toxic*	6.1		
[2321]	Trichlorobenzenes, liquid	6.1		
1710	Trichloroethylene	6.1		
[2328]	Trimethylhexamethylene diisocyanate	6.1		
2501	Tris-(1-aziridiny) phosphine oxide solution	6.1		
[3285]	Vanadium compound, n.o.s.*	6.1		
[2862]	Vanadium pentoxide	6.1		
2855	Zinc fluorosilicate	6.1		

Note: The list has been sorted in alphabetical order according to Proper Shipping Name for ease of reviewing potential like/related dangerous goods.