



**Committee of Experts on the Transport of Dangerous Goods
and on the Globally Harmonized System of Classification
and Labelling of Chemicals****Sub-Committee of Experts on the Transport of Dangerous Goods****Forty-sixth session**

Geneva, 1 – 9 December 2014

Item 2 (a) of the provisional agenda

**Recommendations made by the Sub-Committee on its forty-third,
forty-fourth and forty-fifth sessions and pending issues: explosives and related matters****Globally harmonized standard for explosives security
markings****Transmitted by the Institute of Makers of Explosives (IME)¹***Summary*

In this paper, for certain explosive devices and substances, IME seeks to establish a globally harmonized format for explosives security markings by adding a new Section 1.4.4 to Chapter 1.4 of the Model Regulations.

Introduction

1. At the forty-third session of the Sub-Committee, in informal document INF.18, IME discussed that there is a critical need for successful tracing of recovered explosives, and that the placement of marks on articles and substances of Class 1 based on a globally harmonized marking format would be a critical component of successful tracing globally.

¹ In accordance with the programme of work of the Sub-Committee for 2013-2014 approved by the Committee at its sixth session (refer to ST/SG/AC.10/C.3/84, para. 86 and ST/SG/AC.10/40, para. 14).

2. The Working Group on Explosives (EWG) agreed that a globally harmonized format for marking, most likely based on the European Union format, might be worthwhile.² The Sub-Committee agreed with the EWG and encouraged IME to submit a formal proposal.³

3. At the forty-fifth session of the Sub-Committee, a formal proposal was submitted in working paper ST/SG/AC.10/C.3/2014/5 (2014/5). Several experts supported the proposal; however, several questions of principle were raised that IME had not addressed in 2014/5⁴. It was suggested that IME further investigate those questions of principle and address them in an improved proposal at the 46th session of the Sub-Committee.

Discussion

4. It is well known that many countries and law enforcement agencies desire to have explosives uniquely identified to facilitate their traceability in the event of loss or theft, or for security purposes. When present, such security markings would assist law enforcement and government officials to determine from where confiscated, discovered, and/or recovered explosives were acquired. Establishing from where in the chain of custody such explosives were acquired may assist these officials in identifying those who may have illicitly obtained such explosives and may aid in reducing the availability of such explosives, thus increasing the overall security of the world from attacks using explosive articles and/or substances.

5. Indeed, within the European Union, Directive 2008/43/EC mandates such a marking system. Other countries have also mandated, or have under consideration, requirements for marking, serialization and/or traceability of explosives. These include: Argentina, Australia, Brazil, Canada, China, India, Kazakhstan, Peru, Russian Federation, and the United States of America.

6. The result is a proliferation of disparate systems utilizing differing formats of marking for traceability. These disparate systems create unintended consequences. Such disparate systems (1) undermine the ability of countries to trace products that illegally cross national boundaries, (2) needlessly complicate efforts of manufacturers to identify, maintain inventories and record individual lots that are destined for the different countries, and (3) mean that the same marking could have different meanings in different countries defeating the purpose for the marks.

7. IME proposes to globally standardize such security markings into a harmonized format so that, when marks are used, interpretation of those markings can be done quickly and efficiently, enabling law enforcement officials to advance their investigations without undue delays. Since almost all Class 1 articles and substances must at some time be transported, the United Nations Recommendations on the Transport of Dangerous Goods, in the form of the Model Regulations, appears to be the most appropriate instrument to enable such harmonized identification information to be adopted universally.

8. The structure proposed by IME recognizes that the key information for traceability is the name and location of the manufacturer of the product and a code that can be used to uniquely identify the individual explosive item. This proposal only deals with the format of such a marking and does not advocate any physical or chemical modification of the explosive material contained in the product (chemical or microscopic identifiers or taggants).

² Informal document INF.61/Rev.1, 43rd session, para. 21

³ ST/SG/AC.10/C.3/86, para. 33

⁴ ST/SG/AC.10/C.3/90, paras. 38 – 39

9. The format proposed by IME is based on the harmonized system of the European Commission Directive 2008/43/EC (as amended by Directive 2012/4/EU), which is believed to be the most commonly used marking format. Much of global industry has already adopted this format for transport to, within, and through the European Union. Since the proposed marking format simply extends the country identifier beyond that of the European Union, it is believed that such a format would have no impact on markings already being used within the European Union.

10. It is IME's hope that those countries outside of the European Union that have already mandated security marking requirements will authorize the proposed format as an acceptable alternative to that which they have already mandated. Additionally, it is hoped that those countries planning to mandate such marking will accept the proposed format as their mandated format or at least as an acceptable alternative. The USA's Bureau Alcohol, Tobacco, Firearms, and Explosives (ATF) has already accepted the EU-based format as an alternative for use in that country.⁵ Additionally, Brazil has accepted the format on a case-by-case basis.

Questions of principle and implementation

11. As suggested during the forty-fifth session, IME conferred with experts of the Sub-Committee to identify those questions of principle and implementation (issues) that should be addressed before consideration of its proposal. The input received by IME can be described in four categories:

- (a) Why the Model Regulations?
- (b) Why not the GHS?
- (c) Permissive language vs. prescriptive language.
- (d) Implementation.

12. Why the Model Regulations? We know of no other international forum within which to accomplish the goal of a globally harmonized format for the security marking of explosives. The Model Regulations are internationally known and accepted and have a long history of successful global harmonization of requirements that affect the safety and security of explosives during transport. Hence, IME believes that it is the most effective and expedient place to describe such a requirement.

Except for explosives that are manufactured for use in situ (and which are excluded from this proposal), all explosives must, at one time or another, be transported. It is the one common element in the life cycle of explosives. Additionally, it is IME's opinion that explosives are the most vulnerable to theft or diversion for illicit uses during transport. In the broader sense of all dangerous goods, and not just limited to explosives, the Sub-Committee has already recognized and addressed the issue of the security of dangerous goods during transport by developing Chapter 1.4 of the Model Regulations. This chapter provides requirements intended to address security during transport in all modes, and these requirements are "... measures or precautions to be taken to minimize theft or misuse of dangerous goods that may endanger persons or property." By making it easier to trace recovered explosives, it is IME's belief that the presence of security markings on explosives articles and packagings, utilizing a globally harmonized format, are appropriate

⁵ Alternative Identification Markings, ATF Explosives Industry Newsletter, January 2014, p. 3 (<http://www.atf.gov/publications/newsletters/index.html>)

measures that can be taken to discourage and minimize theft or misuse of explosives – a goal that is entirely within the stated purpose of Chapter 1.4 of the Model Regulations.

Specifically, Chapter 1.4 focuses on high consequence dangerous goods and identifies those of most concern in **Table 1.4.1: Indicative list of high consequence dangerous goods**. Table 1.4.1 includes explosives of Division 1.1, 1.2, 1.3C and 1.5 and the Division 1.4 explosives listed in Table 1 on the following page. IME’s proposal focuses on this same list of high consequence explosives. Additionally, since the format proposed by IME is based on the harmonized system of EU, in proposed section 1.4.4.2, IME adopts the same exclusions as those in the EU directive.

IME conducted an analysis of the Class 1 entries in the Model Regulations Dangerous Goods List (18th Rev.) to determine which entries would be included in the scope of the proposal and which entries would be excluded. A summary of this analysis is provided in Annex 2. Based on this analysis, IME concluded that there are 373 Class 1 entries in the Dangerous Goods List. Of these 373 entries, 247 entries are covered by Table 1.4.1 and would be candidates for inclusion within the scope of the proposal. Of these 247 entries, 83 entries would be excluded under proposed section 1.4.4.2 (the EU exclusions), leaving 164 entries that are included within the scope of the proposal.

<i>UN No.</i>	<i>Name and Description</i>	<i>Division</i>
UN 0104	Cord (fuse), detonating, mild effect	1.4D
UN 0237	Charges, shaped, flexible, linear	1.4D
UN 0255	Detonators, electric	1.4B
UN 0267	Detonators, non-electric	1.4B
UN 0289	Cord, detonating	1.4D
UN 0361	Detonator assemblies, non-electric	1.4B
UN 0365	Detonators for ammunition	1.4B
UN 0366	Detonators for ammunition	1.4S
UN 0440	Charges, shaped	1.4D
UN 0441	Charges, shaped	1.4S
UN 0455	Detonators, non-electric	1.4S
UN 0456	Detonators, electric	1.4S
UN 0500	Detonator assemblies, non-electric	1.4S

Table 1
Division 1.4 Explosives Included in
Table 1.4.1: Indicative list of high consequence dangerous goods

- (a) The following entries would be included:

UN0004, UN0027, UN0028, UN0029, UN0030, UN0042, UN0043, UN0048, UN0049, UN0059, UN0060, UN0065, UN0072, UN0074, UN0075, UN0076, UN0077, UN0078, UN0079, UN0081, UN0082, UN0083, UN0084, UN0094, UN0099, UN0102, UN0104, UN0106, UN0107, UN0113, UN0114, UN0118, UN0121, UN0124, UN0129, UN0130, UN0132, UN0133, UN0135, UN0143, UN0144, UN0146, UN0147, UN0150, UN0151, UN0153, UN0154, UN0155, UN0159, UN0160, UN0161, UN0204, UN0207, UN0208, UN0209, UN0213, UN0214, UN0215, UN0216, UN0217, UN0218, UN0219, UN0220, UN0222, UN0224, UN0225, UN0226, UN0234, UN0235, UN0236, UN0237, UN0241, UN0242, UN0248, UN0255, UN0266, UN0267, UN0268, UN0271, UN0272, UN0275, UN0277, UN0279, UN0282, UN0283, UN0288, UN0289, UN0290, UN0296, UN0314, UN0331, UN0332, UN0340, UN0341, UN0342, UN0343, UN0354, UN0355, UN0357, UN0358, UN0360, UN0361, UN0374, UN0375, UN0380, UN0381, UN0382, UN0385, UN0386, UN0387, UN0388, UN0389, UN0390, UN0391, UN0392, UN0393, UN0394, UN0401, UN0402, UN0406, UN0408, UN0409, UN0411, UN0414, UN0415, UN0433, UN0439, UN0440, UN0441, UN0442, UN0443, UN0447, UN0455, UN0456, UN0457, UN0458, UN0461, UN0462, UN0463, UN0464, UN0465, UN0466, UN0467, UN0468, UN0469, UN0470, UN0473, UN0474, UN0475, UN0476, UN0477, UN0482, UN0483, UN0484, UN0489, UN0490, UN0495, UN0496, UN0497, UN0498, UN0499, UN0500, UN0504, UN0508

(b) The following entries would be excluded:

UN0005, UN0006, UN0007, UN0009, UN0010, UN0012, UN0014, UN0015, UN0016, UN0018, UN0019, UN0020, UN0021, UN0033, UN0034, UN0035, UN0037, UN0038, UN0039, UN0044, UN0050, UN0054, UN0055, UN0056, UN0066, UN0070, UN0073, UN0092, UN0093, UN0101, UN0103, UN0105, UN0110, UN0131, UN0136, UN0137, UN0138, UN0167, UN0168, UN0169, UN0171, UN0173, UN0174, UN0180, UN0181, UN0182, UN0183, UN0186, UN0190, UN0191, UN0192, UN0193, UN0194, UN0195, UN0196, UN0197, UN0212, UN0221, UN0238, UN0240, UN0243, UN0244, UN0245, UN0246, UN0247, UN0249, UN0250, UN0254, UN0257, UN0276, UN0278, UN0280, UN0281, UN0284, UN0285, UN0286, UN0287, UN0291, UN0292, UN0293, UN0294, UN0295, UN0297, UN0299, UN0300, UN0301, UN0303, UN0305, UN0306, UN0312, UN0313, UN0315, UN0316, UN0317, UN0318, UN0319, UN0320, UN0321, UN0322, UN0323, UN0324, UN0325, UN0326, UN0327, UN0328, UN0329, UN0330, UN0333, UN0334, UN0335, UN0336, UN0337, UN0338, UN0339, UN0344, UN0345, UN0346, UN0347, UN0348, UN0349, UN0350, UN0351, UN0352, UN0353, UN0356, UN0359, UN0362, UN0363, UN0364, UN0365, UN0366, UN0367, UN0368, UN0369, UN0370, UN0371, UN0372, UN0373, UN0376, UN0377, UN0378, UN0379, UN0383, UN0384, UN0395, UN0396, UN0397, UN0398, UN0399, UN0400, UN0403, UN0404, UN0405, UN0407, UN0410, UN0412, UN0413, UN0417, UN0418, UN0419, UN0420, UN0421, UN0424, UN0425, UN0426, UN0427, UN0428, UN0429, UN0430, UN0431, UN0432, UN0434, UN0435, UN0436, UN0437, UN0438, UN0444, UN0445, UN0446, UN0448, UN0449, UN0450, UN0451, UN0452, UN0453, UN0454, UN0459, UN0460, UN0471,

UN0472, UN0478, UN0479, UN0480, UN0481, UN0485, UN0486,
UN0487, UN0488, UN0491, UN0492, UN0493, UN0494, UN0501,
UN0502, UN0503, UN0505, UN0506, UN0507, UN0509

13. Why not the GHS? Since the proposed labeling format affects other activities such as manufacture, storage, and use of explosives, some experts asked if it would be more appropriate that a globally harmonized explosives security marking format be described in the GHS instead of the Model Regulations. Section 1.1.2.1 of the GHS outlines the scope of that document, which is to provide (emphasis added):

- (a) “harmonized criteria for classifying substances and mixtures **according to their health, environmental and physical hazards;**” and
- (b) “harmonized **hazard communication elements**, including requirements for labelling and safety data sheets.”

The scope of the GHS is to provide those persons who handle chemicals with information regarding the hazards associated with handling those chemicals, i.e. the scope deals primarily with occupational health and safety, and not security per se. In fact, the word “security” does not appear even a single time in the GHS document.

The security markings proposed by IME do nothing to communicate such hazards, they merely provide a mechanism to identify those parties that may have possessed explosives that have been lost or stolen and later recovered. Therefore, this proposal falls outside the scope of the GHS.

14. Permissive language vs. prescriptive language. In its proposal for the forty-fifth session (2014/5), IME used permissive language rather than the prescriptive language that is used throughout the Model Regulations. Recalling that the formal title of the Model Regulations is (emphasis added), “**Recommendations** on the Transport of Dangerous Goods, Model Regulations”, as IME prepared 2014/5, it believed that the best approach was one of permissive language, consistent with “recommendations”. However, IME also recognizes that they are “model regulations”, the style of which should be prescriptive. Given comments received from experts at the forty-fifth session and the regulatory nature of the Model Regulations, IME has revised its approach, and the proposal presented in Annex 1 is written in the same prescriptive language that is used throughout Model Regulations.

15. Implementation. During our discussions with experts at the 45th Session, as well as in follow-up emails, questions of implementation have arisen. It remains IME’s singular intent to establish a globally harmonized explosives security marking format and to leave issues of implementation to those authorities having that responsibility. Implementation issues are complicated, will vary from nation to nation, and even within the EU, remain somewhat unresolved. Therefore, the proposal in Annex 1 does not address implementation issues.

Final considerations and conclusion

16. IME is seeking approval of a globally harmonized format for explosives security markings within Chapter 1.4 of the Model Regulations. Since there are already several systems in place and others under development, IME believes that the need for a globally harmonized format is immediate and respectfully requests approval during the current biennium.

17. Issues of implementation are largely the concern of nations that adopt a security marking requirement and will vary according to the specific political and practical goals of

implementing nations. IME believes that it is best to leave those issues to the national authorities; however, the Sub-Committee may determine that some global harmonization of implementation principles would be advisable. If that is the case, IME suggests that this work be added to the plan of work for the 2015 – 2016 biennium, and that the important security provision of a globally harmonized format be approved now and not delayed until the next biennium.

18. The proposal in Annex 1 is closely aligned with the security provisions of the Model Regulations that address dangerous goods of high consequence, specifically those explosives listed in Table 1.4.1 of Chapter 1.4 of the Model Regulations. Therefore, in Amendment 1 in Annex 1, IME is proposing to limit the use of globally harmonized security markings to those explosives listed in Table 1.4.1, except for those listed items excluded by the EU directives upon which the marking format is based.

19. Assuming that the Sub-Committee supports the IME proposal for a globally harmonized format, as described in Annex 1, IME expects that:

- (a) The format would be adopted by nations that are yet to develop security marking requirements;
- (b) The format would be adopted, or authorized as an acceptable alternative, by nations that are currently in the process of developing security marking requirements;
- (c) The format would be adopted, or authorized as an acceptable alternative, by nations that already have security marking requirements in effect;
- (d) ICAO, IATA, IMO, UNECE would consider inclusion of the requirement, at least in a recommendatory form, in their respective regulations; and
- (e) In nations where the transport authority is not the authority responsible for explosives security, said transport authority would advise its national security authority and encourage adoption of the requirement.

Proposal

20. The Sub-Committee is requested to add a note to Table 1.4.1 in Chapter 1.4 of the Model Regulations directing the reader to the provisions of a new Section 1.4.4 to be added to Chapter 1.4. The proposed note is shown in “Amendment 1” in Annex 1. Further, the Sub-Committee is requested to add a new section 1.4.4 to Chapter 1.4 of the Model regulations describing the globally harmonized explosives security marking format as shown in “Amendment 2” in Annex 1.

Annex 1

Amendment 1: Renumber the “Note” to Table 1.4.1 in Chapter 1.4 of the Model Regulations to read “Note 1” and add a new note to read as follows:

NOTE 2: In implementing national security provisions, national authorities shall consider requiring security markings for Table 1.4.1 explosives, as described in 1.4.4.

Amendment 2: Add new section 1.4.4 to the Model Regulations:

1.4.4 Security marking requirements for explosives that are listed in Table 1.4.1: Indicative list of high consequence dangerous goods

NOTE: In implementing national security provisions, national authorities shall consider security markings of Class 1 articles or substances to enable traceability, thus enhancing the security of explosives during transport as well as at other times. The provisions of Section 1.4.4 have been developed to aid national authorities in developing a globally harmonized explosives security marking format so that the security markings may be readily and reliably read and understood by those encountering marked explosives.

1.4.4.1 Except as provided in 1.4.4.2, Class 1 explosives that are listed in **Table 1.4.1: Indicative list of high consequence dangerous goods** shall not be offered for transport unless, where technically feasible, they bear unique identification marks as prescribed in 1.4.4.3.

1.4.4.2 Provisions of 1.4.4.1 do not apply to:

- (a) Explosives transported and delivered unpackaged or in pump trucks for their direct unloading into blast-holes intended for explosive blasting operations;
- (b) Explosives manufactured at explosives blast site operations, and loaded for use immediately after being produced (in situ production);
- (c) Fuses, which are cord-like non-detonating igniting devices;
- (d) Safety fuses;
- (e) Cap-type primers;
- (f) Pyrotechnical articles, which are articles containing explosives substances or an explosive mixture of substances designed to produce heat, light, sound, gas or smoke or a combination of such effects through self-sustained exothermic chemical reactions; and/or
- (g) Ammunition.

NOTE: Terms not defined above are defined in Appendix B.

1.4.4.3 Globally harmonized format for explosives security markings. Security markings for explosives shall comprise of at least the following elements:

1.4.4.3.1 A human readable part of the identification mark containing the following:

- (a) The name of the manufacturer and
- (b) An alphanumeric code containing:
 - (i) The ISO 3166-1 alpha-2 code indicating the country of production;

- (ii) Three digits identifying the name of the manufacturing site (attributed by the national authority); and
- (iii) The unique product code and logistical information designated by the manufacturer.

NOTE: *The three digit code described in 1.4.4.3.1(b)(ii) should be assigned by the competent authority, or the competent authority's designee, in the country of manufacture. The manufacturer site code may be assigned by the competent authority (or designee) of another country, if none is available in the country of manufacture.*

1.4.4.3.2 An electronic readable identification mark in barcode and/or matrix code format that relates directly to the alphanumeric identification code, when required by the competent authority or if desired by the manufacturer. The electronic readable identification may include additional code that facilitates access to other product information such as safety and handling instructions.

NOTE: *Guidance and recommendations relating to the technical specifications of security markings described in 1.4.4.3.2 may be found in Guidance Note: FEEM European Explosives Code Structure available at www.feem.info.*

1.4.4.3.3 Examples of acceptable markings are shown below:



Annex 2

[English only]

**Analysis of Coverage of IME Proposal
on Existing Class 1 Entries
(sorted by Division and Compatibility Group)**

UN No.	Name and description	Class	Item on the Indicative List	Sub-section 1.4.4.2		Covered by proposal	Reason not covered
				Exclusion Applies?	Exclusion Reference		
UN0190	SAMPLES, EXPLOSIVE, other than initiating explosive					N	1
UN0224	BARIUM AZIDE, dry or wetted with less than 50% water, by mass	1.1A	Y			Y	
UN0074	DIAZODINITROPHENOL, WETTED with not less than 40% water, or mixture of alcohol and water, by mass	1.1A	Y			Y	
UN0113	GUANYL NITROSAMINO-GUANYLIDENE HYDRAZINE, WETTED with not less than 30% water, by mass	1.1A	Y			Y	
UN0114	GUANYL NITROSAMINO-GUANYLTETRAZENE (TETRAZENE), WETTED with not less than 30% water, or mixture of alcohol and water, by mass	1.1A	Y			Y	
UN0129	LEAD AZIDE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	1.1A	Y			Y	
UN0130	LEAD STYPHNATE (LEAD TRINITRORESORCINATE), WETTED with not less than 20% water, or mixture of alcohol and water, by mass	1.1A	Y			Y	
UN0135	MERCURY FULMINATE, WETTED with not less than 20% water, or mixture of alcohol and water, by mass	1.1A	Y			Y	
UN0473	SUBSTANCES, EXPLOSIVE, N.O.S.	1.1A	Y			Y	
UN0225	BOOSTERS WITH DETONATOR	1.1B	Y			Y	
UN0461	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	1.1B	Y			Y	
UN0360	DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	1.1B	Y			Y	

UN No.	Name and description	Class	Item on the Indicative List	Sub-section 1.4.4.2		Covered by proposal	Reason not covered
				Exclusion Applies?	Exclusion Reference		
UN0073	DETONATORS FOR AMMUNITION	1.1B	Y	Y	(g)	N	2
UN0030	DETONATORS, ELECTRIC for blasting	1.1B	Y			Y	
UN0029	DETONATORS, NON-ELECTRIC for blasting	1.1B	Y			Y	
UN0106	FUZES, DETONATING	1.1B	Y			Y	
UN0377	PRIMERS, CAP TYPE	1.1B	Y	Y	(e)	N	2
UN0462	ARTICLES, EXPLOSIVE, N.O.S.	1.1C	Y			Y	
UN0326	CARTRIDGES FOR WEAPONS, BLANK	1.1C	Y	Y	(g)	N	2
UN0271	CHARGES, PROPELLING	1.1C	Y			Y	
UN0279	CHARGES, PROPELLING, FOR CANNON	1.1C	Y			Y	
UN0433	POWDER CAKE (POWDER PASTE), WETTED with not less than 17% alcohol, by mass	1.1C	Y			Y	
UN0160	POWDER, SMOKELESS	1.1C	Y			Y	
UN0497	PROPELLANT, LIQUID	1.1C	Y			Y	
UN0498	PROPELLANT, SOLID	1.1C	Y			Y	
UN0280	ROCKET MOTORS	1.1C	Y	Y	(g)	N	2
UN0474	SUBSTANCES, EXPLOSIVE, N.O.S.	1.1C	Y			Y	
UN0504	1H-TETRAZOLE	1.1D	Y			Y	
UN0385	5-NITROBENZOTRIAZOL	1.1D	Y			Y	
UN0222	AMMONIUM NITRATE	1.1D	Y			Y	
UN0402	AMMONIUM PERCHLORATE	1.1D	Y			Y	
UN0004	AMMONIUM PICRATE dry or wetted with less than 10% water, by mass	1.1D	Y			Y	
UN0463	ARTICLES, EXPLOSIVE, N.O.S.	1.1D	Y			Y	
UN0028	BLACK POWDER (GUNPOWDER), COMPRESSED or BLACK POWDER (GUNPOWDER), IN PELLETS	1.1D	Y			Y	
UN0027	BLACK POWDER (GUNPOWDER), granular or as a	1.1D	Y			Y	

Codes for "Reason not covered":

1 – Not on the indicative list

2 – Excluded by proposed section 1.4.4.2

Color codes:

Yellow highlight = item excluded by proposed section 1.4.4.2

Red text = item on the indicative list

UN No.	Name and description	Class	Item on the Indicative List	Sub-section 1.4.4.2		Covered by proposal	Reason not covered
				Exclusion Applies?	Exclusion Reference		
	meal						
UN0034	BOMBS with bursting charge	1.1D	Y	Y	(g)	N	2
UN0038	BOMBS, PHOTO-FLASH	1.1D	Y	Y	(g)	N	2
UN0042	BOOSTERS without detonator	1.1D	Y			Y	
UN0043	BURSTERS, explosive	1.1D	Y			Y	
UN0457	CHARGES, BURSTING, PLASTICS BONDED	1.1D	Y			Y	
UN0048	CHARGES, DEMOLITION	1.1D	Y			Y	
UN0056	CHARGES, DEPTH	1.1D	Y	Y	(g)	N	2
UN0442	CHARGES, EXPLOSIVE, COMMERCIAL without detonator	1.1D	Y			Y	
UN0059	CHARGES, SHAPED without detonator	1.1D	Y			Y	
UN0288	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.1D	Y			Y	
UN0060	CHARGES, SUPPLEMENTARY, EXPLOSIVE	1.1D	Y			Y	
UN0290	CORD (FUSE), DETONATING, metal clad	1.1D	Y			Y	
UN0065	CORD, DETONATING, flexible	1.1D	Y			Y	
UN0484	CYCLOTETRAMETHYLENE-TETRANITRAMINE (HMX; OCTOGEN), DESENSITIZED	1.1D	Y			Y	
UN0226	CYCLOTETRAMETHYLENE-TETRANITRAMINE (HMX; OCTOGEN), WETTED with not less than 15% water, by mass	1.1D	Y			Y	

Codes for "Reason not covered":

1 – Not on the indicative list

2 – Excluded by proposed section 1.4.4.2

Color codes:

Yellow highlight = item excluded by proposed section 1.4.4.2

Red text = item on the indicative list

UN No.	Name and description	Class	Item on the Indicative List	Sub-section 1.4.4.2		Covered by proposal	Reason not covered
				Exclusion Applies?	Exclusion Reference		
UN0391	CYCLOTRIMETHYLENE-TRINITRAMINE (CYCLONITE; HEXOGEN; RDX) AND CYCLOTETRAMETHYLENE-TETRANITRAMINE (HMX; OCTOGEN) MIXTURE, WETTED with not less than 15% water, by mass or CYCLOTRIMETHYLENE-TRINITRAMINE (CYCLONITE; HEXOGEN; RDX) AND CYCLOTETRAMETHYLENE-TETRANITRAMINE (HMX; OCTOGEN) MIXTURE, DESENSITIZED with not less than 10% phlegmatizer, by mass	1.1D	Y			Y	
UN0483	CYCLOTRIMETHYLENE-TRINITRAMINE (CYCLONITE; HEXOGEN; RDX), DESENSITIZED	1.1D	Y			Y	
UN0072	CYCLOTRIMETHYLENE-TRINITRAMINE (CYCLONITE; HEXOGEN; RDX), WETTED with not less than 15% water, by mass	1.1D	Y			Y	
UN0075	DIETHYLENEGLYCOL DINITRATE, DESENSITIZED with not less than 25% non-volatile, water-insoluble phlegmatizer, by mass	1.1D	Y			Y	
UN0489	DINITROGLYCOLURIL (DINGU)	1.1D	Y			Y	
UN0076	DINITROPHENOL, dry or wetted with less than 15% water, by mass	1.1D	Y			Y	
UN0078	DINITRORESORCINOL, dry or wetted with less than 15% water, by mass	1.1D	Y			Y	
UN0401	DIPICRYL SULPHIDE, dry or wetted with less than 10% water, by mass	1.1D	Y			Y	
UN0081	EXPLOSIVE, BLASTING, TYPE A	1.1D	Y			Y	
UN0082	EXPLOSIVE, BLASTING, TYPE B	1.1D	Y			Y	
UN0083	EXPLOSIVE, BLASTING, TYPE C	1.1D	Y			Y	

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UN0084	EXPLOSIVE, BLASTING, TYPE D	1.1D	Y			Y	
UN0241	EXPLOSIVE, BLASTING, TYPE E	1.1D	Y			Y	
UN0099	FRACTURING DEVICES, EXPLOSIVE without detonator, for oil wells	1.1D	Y			Y	
UN0408	FUZES, DETONATING with protective features	1.1D	Y			Y	
UN0284	GRENADES, hand or rifle, with bursting charge	1.1D	Y	Y	(g)	N	2
UN0079	HEXANITRODIPHENYLAMINE (DIPICRYLAMINE; HEXYL)	1.1D	Y			Y	
UN0392	HEXANITROSTILBENE	1.1D	Y			Y	
UN0118	HEXOLITE (HEXOTOL), dry or wetted with less than 15% water, by mass	1.1D	Y			Y	
UN0393	HEXOTONAL	1.1D	Y			Y	
UN0124	JET PERFORATING GUNS, CHARGED, oil well, without detonator	1.1D	Y			Y	
UN0133	MANNITOL HEXANITRATE (NITROMANNITE), WETTED with not less than 40% water, or mixture of alcohol and water, by mass	1.1D	Y			Y	
UN0137	MINES with bursting charge	1.1D	Y	Y	(g)	N	2
UN0147	NITRO UREA	1.1D	Y			Y	
UN0340	NITROCELLULOSE, dry or wetted with less than 25% water (or alcohol), by mass	1.1D	Y			Y	
UN0341	NITROCELLULOSE, unmodified or plasticized with less than 18% plasticizing substance, by mass	1.1D	Y			Y	
UN0144	NITROGLYCERIN SOLUTION IN ALCOHOL with more than 1% but not more than 10% nitroglycerin	1.1D	Y			Y	
UN0143	NITROGLYCERIN, DESENSITIZED with not less than 40% non-volatile water-insoluble phlegmatizer, by mass	1.1D	Y			Y	

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UN0282	NITROGUANIDINE (PICRITE), dry or wetted with less than 20% water, by mass	1.1D	Y			Y	
UN0146	NITROSTARCH, dry or wetted with less than 20% water, by mass	1.1D	Y			Y	
UN0490	NITROTRIAZOLONE (NTO)	1.1D	Y			Y	
UN0266	OCTOLITE (OCTOL), dry or wetted with less than 15% water, by mass	1.1D	Y			Y	
UN0496	OCTONAL	1.1D	Y			Y	
UN0411	PENTAERYTHRITE TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN) with not less than 7% wax, by mass	1.1D	Y			Y	
UN0150	PENTAERYTHRITE TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN), WETTED with not less than 25% water, by mass, or PENTAERYTHRITE TETRANITRATE (PENTAERYTHRITOL TETRANITRATE; PETN), DESENSITIZED with not less than 15% phlegmatizer, by mass	1.1D	Y			Y	
UN0151	PENTOLITE, dry or wetted with less than 15% water, by mass	1.1D	Y			Y	
UN0168	PROJECTILES with bursting charge	1.1D	Y	Y	(g)	N	2
UN0374	SOUNDING DEVICES, EXPLOSIVE	1.1D	Y			Y	
UN0475	SUBSTANCES, EXPLOSIVE, N.O.S.	1.1D	Y			Y	
UN0207	TETRANITROANILINE	1.1D	Y			Y	
UN0451	TORPEDOES with bursting charge	1.1D	Y	Y	(g)	N	2
UN0153	TRINITROANILINE (PICRAMIDE)	1.1D	Y			Y	
UN0213	TRINITROANISOLE	1.1D	Y			Y	

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UN0214	TRINITROBENZENE, dry or wetted with less than 30% water, by mass	1.1D	Y			Y	
UN0386	TRINITROBENZENE-SULPHONIC ACID	1.1D	Y			Y	
UN0215	TRINITROBENZOIC ACID, dry or wetted with less than 30% water, by mass	1.1D	Y			Y	
UN0155	TRINITROCHLOROBENZENE (PICRYL CHLORIDE)	1.1D	Y			Y	
UN0387	TRINITROFLUORENONE	1.1D	Y			Y	
UN0216	TRINITRO-m-CRESOL	1.1D	Y			Y	
UN0217	TRINITRONAPHTHALENE	1.1D	Y			Y	
UN0218	TRINITROPHENETOLE	1.1D	Y			Y	
UN0154	TRINITROPHENOL (PICRIC ACID), dry or wetted with less than 30% water, by mass	1.1D	Y			Y	
UN0208	TRINITROPHENYLMETHYL-NITRAMINE (TETRYL)	1.1D	Y			Y	
UN0219	TRINITRORESORCINOL (STYPHNIC ACID), dry or wetted with less than 20% water, or mixture of alcohol and water, by mass	1.1D	Y			Y	
UN0394	TRINITRORESORCINOL (STYPHNIC ACID), WETTED with not less than 20% water, or mixture of alcohol and water, by mass	1.1D	Y			Y	
UN0388	TRINITROTOLUENE (TNT) AND TRINITROBENZENE MIXTURE or TRINITROTOLUENE (TNT) AND HEXANITROSTILBENE MIXTURE	1.1D	Y			Y	
UN0389	TRINITROTOLUENE (TNT) MIXTURE CONTAINING TRINITROBENZENE AND HEXANITROSTILBENE	1.1D	Y			Y	
UN0209	TRINITROTOLUENE (TNT), dry or wetted with less than 30% water, by mass	1.1D	Y			Y	
UN0390	TRITONAL	1.1D	Y			Y	

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UN0220	UREA NITRATE, dry or wetted with less than 20% water, by mass	1.1D	Y			Y	
UN0286	WARHEADS, ROCKET with bursting charge	1.1D	Y	Y	(g)	N	2
UN0221	WARHEADS, TORPEDO with bursting charge	1.1D	Y	Y	(g)	N	2
UN0464	ARTICLES, EXPLOSIVE, N.O.S.	1.1E	Y			Y	
UN0006	CARTRIDGES FOR WEAPONS with bursting charge	1.1E	Y	Y	(g)	N	2
UN0181	ROCKETS with bursting charge	1.1E	Y	Y	(g)	N	2
UN0329	TORPEDOES with bursting charge	1.1E	Y	Y	(g)	N	2
UN0465	ARTICLES, EXPLOSIVE, N.O.S.	1.1F	Y			Y	
UN0033	BOMBS with bursting charge	1.1F	Y	Y	(g)	N	2
UN0037	BOMBS, PHOTO-FLASH	1.1F	Y	Y	(g)	N	2
UN0005	CARTRIDGES FOR WEAPONS with bursting charge	1.1F	Y	Y	(g)	N	2
UN0292	GRENADES, hand or rifle, with bursting charge	1.1F	Y	Y	(g)	N	2
UN0136	MINES with bursting charge	1.1F	Y	Y	(g)	N	2
UN0167	PROJECTILES with bursting charge	1.1F	Y	Y	(g)	N	2
UN0180	ROCKETS with bursting charge	1.1F	Y	Y	(g)	N	2
UN0296	SOUNDING DEVICES, EXPLOSIVE	1.1F	Y			Y	
UN0330	TORPEDOES with bursting charge	1.1F	Y	Y	(g)	N	2
UN0369	WARHEADS, ROCKET with bursting charge	1.1F	Y	Y	(g)	N	2
UN0428	ARTICLES, PYROTECHNIC for technical purposes	1.1G	Y	Y	(f)	N	2
UN0049	CARTRIDGES, FLASH	1.1G	Y			Y	
UN0333	FIREWORKS	1.1G	Y	Y	(f)	N	2
UN0420	FLARES, AERIAL	1.1G	Y	Y	(f)	N	2
UN0418	FLARES, SURFACE	1.1G	Y	Y	(f)	N	2
UN0094	FLASH POWDER	1.1G	Y			Y	
UN0121	IGNITERS	1.1G	Y			Y	

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UN0194	SIGNALS, DISTRESS, ship	1.1G	Y	Y	(f)	N	2
UN0192	SIGNALS, RAILWAY TRACK, EXPLOSIVE	1.1G	Y	Y	(f)	N	2
UN0196	SIGNALS, SMOKE	1.1G	Y	Y	(f)	N	2
UN0476	SUBSTANCES, EXPLOSIVE, N.O.S.	1.1G	Y			Y	
UN0399	BOMBS WITH FLAMMABLE LIQUID with bursting charge	1.1J	Y	Y	(g)	N	2
UN0397	ROCKETS, LIQUID FUELLED with bursting charge	1.1J	Y	Y	(g)	N	2
UN0449	TORPEDOES, LIQUID FUELLED with or without bursting charge	1.1J	Y	Y	(g)	N	2
UN0354	ARTICLES, EXPLOSIVE, N.O.S.	1.1L	Y			Y	
UN0357	SUBSTANCES, EXPLOSIVE, N.O.S.	1.1L	Y			Y	
UN0268	BOOSTERS WITH DETONATOR	1.2B	Y			Y	
UN0382	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	1.2B	Y			Y	
UN0364	DETONATORS FOR AMMUNITION	1.2B	Y	Y	(g)	N	2
UN0107	FUZES, DETONATING	1.2B	Y			Y	
UN0466	ARTICLES, EXPLOSIVE, N.O.S.	1.2C	Y			Y	
UN0413	CARTRIDGES FOR WEAPONS, BLANK	1.2C	Y	Y	(g)	N	2
UN0328	CARTRIDGES FOR WEAPONS, INERT PROJECTILE	1.2C	Y	Y	(g)	N	2
UN0381	CARTRIDGES, POWER DEVICE	1.2C	Y			Y	
UN0415	CHARGES, PROPELLING	1.2C	Y			Y	
UN0414	CHARGES, PROPELLING, FOR CANNON	1.2C	Y			Y	
UN0281	ROCKET MOTORS	1.2C	Y	Y	(g)	N	2
UN0436	ROCKETS with expelling charge	1.2C	Y	Y	(g)	N	2
UN0502	ROCKETS with inert head	1.2C	Y	Y	(g)	N	2
UN0467	ARTICLES, EXPLOSIVE, N.O.S.	1.2D	Y			Y	
UN0035	BOMBS with bursting charge	1.2D	Y	Y	(g)	N	2
UN0283	BOOSTERS without detonator	1.2D	Y			Y	
UN0458	CHARGES, BURSTING, PLASTICS BONDED	1.2D	Y			Y	

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UN0443	CHARGES, EXPLOSIVE, COMMERCIAL without detonator	1.2D	Y			Y	
UN0439	CHARGES, SHAPED, without detonator	1.2D	Y			Y	
UN0102	CORD (FUSE), DETONATING, metal clad	1.2D	Y			Y	
UN0409	FUZES, DETONATING with protective features	1.2D	Y			Y	
UN0285	GRENADES, hand or rifle, with bursting charge	1.2D	Y	Y	(g)	N	2
UN0138	MINES with bursting charge	1.2D	Y	Y	(g)	N	2
UN0346	PROJECTILES with burster or expelling charge	1.2D	Y	Y	(g)	N	2
UN0169	PROJECTILES with bursting charge	1.2D	Y	Y	(g)	N	2
UN0375	SOUNDING DEVICES, EXPLOSIVE	1.2D	Y			Y	
UN0287	WARHEADS, ROCKET with bursting charge	1.2D	Y	Y	(g)	N	2
UN0468	ARTICLES, EXPLOSIVE, N.O.S.	1.2E	Y			Y	
UN0321	CARTRIDGES FOR WEAPONS with bursting charge	1.2E	Y	Y	(g)	N	2
UN0182	ROCKETS with bursting charge	1.2E	Y	Y	(g)	N	2
UN0469	ARTICLES, EXPLOSIVE, N.O.S.	1.2F	Y			Y	
UN0291	BOMBS with bursting charge	1.2F	Y	Y	(g)	N	2
UN0007	CARTRIDGES FOR WEAPONS with bursting charge	1.2F	Y	Y	(g)	N	2
UN0293	GRENADES, hand or rifle, with bursting charge	1.2F	Y	Y	(g)	N	2
UN0294	MINES with bursting charge	1.2F	Y	Y	(g)	N	2
UN0426	PROJECTILES with burster or expelling charge	1.2F	Y	Y	(g)	N	2
UN0324	PROJECTILES with bursting charge	1.2F	Y	Y	(g)	N	2
UN0295	ROCKETS with bursting charge	1.2F	Y	Y	(g)	N	2
UN0204	SOUNDING DEVICES, EXPLOSIVE	1.2F	Y			Y	
UN0171	AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	1.2G	Y	Y	(g)	N	2

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UN0009	AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	1.2G	Y	Y	(g)	N	2
UN0015	AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	1.2G	Y	Y	(g)	N	2
UN0018	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	1.2G	Y	Y	(g)	N	2
UN0429	ARTICLES, PYROTECHNIC for technical purposes	1.2G	Y	Y	(f)	N	2
UN0039	BOMBS, PHOTO-FLASH	1.2G	Y	Y	(g)	N	2
UN0334	FIREWORKS	1.2G	Y	Y	(f)	N	2
UN0421	FLARES, AERIAL	1.2G	Y	Y	(f)	N	2
UN0419	FLARES, SURFACE	1.2G	Y	Y	(f)	N	2
UN0372	GRENADES, PRACTICE, hand or rifle	1.2G	Y	Y	(g)	N	2
UN0314	IGNITERS	1.2G	Y			Y	
UN0434	PROJECTILES with burster or expelling charge	1.2G	Y	Y	(g)	N	2
UN0238	ROCKETS, LINE-THROWING	1.2G	Y	Y	(g)	N	2
UN0313	SIGNALS, SMOKE	1.2G	Y	Y	(f)	N	2
UN0243	AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	1.2H	Y	Y	(g)	N	2
UN0245	AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	1.2H	Y	Y	(g)	N	2
UN0400	BOMBS WITH FLAMMABLE LIQUID with bursting charge	1.2J	Y	Y	(g)	N	2
UN0395	ROCKET MOTORS, LIQUID FUELLED	1.2J	Y	Y	(g)	N	2
UN0398	ROCKETS, LIQUID FUELLED with bursting charge	1.2J	Y	Y	(g)	N	2
UN0020	AMMUNITION, TOXIC with burster, expelling charge or propelling charge	1.2K	Y	Y	(g)	N	2
UN0355	ARTICLES, EXPLOSIVE, N.O.S.	1.2L	Y			Y	
UN0380	ARTICLES, PYROPHORIC	1.2L	Y			Y	

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UN0248	CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge	1.2L	Y			Y	
UN0322	ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge	1.2L	Y	Y	(g)	N	2
UN0358	SUBSTANCES, EXPLOSIVE, N.O.S.	1.2L	Y			Y	
UN0508	1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, dry or wetted with less than 20% water, by mass	1.3C	Y			Y	
UN0470	ARTICLES, EXPLOSIVE, N.O.S.	1.3C	Y			Y	
UN0327	CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK	1.3C	Y	Y	(g)	N	2
UN0417	CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS	1.3C	Y	Y	(g)	N	2
UN0277	CARTRIDGES, OIL WELL	1.3C	Y			Y	
UN0275	CARTRIDGES, POWER DEVICE	1.3C	Y			Y	
UN0447	CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER	1.3C	Y			Y	
UN0272	CHARGES, PROPELLING	1.3C	Y			Y	
UN0242	CHARGES, PROPELLING, FOR CANNON	1.3C	Y			Y	
UN0132	DEFLAGRATING METAL SALTS OF AROMATIC NITRODERIVATIVES, N.O.S.	1.3C	Y			Y	
UN0077	DINITROPHENOLATES, alkali metals, dry or wetted with less than 15% water, by mass	1.3C	Y			Y	
UN0406	DINITROSOBENZENE	1.3C	Y			Y	
UN0343	NITROCELLULOSE, PLASTICIZED with not less than 18% plasticizing substance, by mass	1.3C	Y			Y	
UN0342	NITROCELLULOSE, WETTED with not less than 25% alcohol, by mass	1.3C	Y			Y	

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UN0159	POWDER CAKE (POWDER PASTE), WETTED with not less than 25% water, by mass	1.3C	Y			Y	
UN0161	POWDER, SMOKELESS	1.3C	Y			Y	
UN0495	PROPELLANT, LIQUID	1.3C	Y			Y	
UN0499	PROPELLANT, SOLID	1.3C	Y			Y	
UN0186	ROCKET MOTORS	1.3C	Y	Y	(g)	N	2
UN0437	ROCKETS with expelling charge	1.3C	Y	Y	(g)	N	2
UN0183	ROCKETS with inert head	1.3C	Y	Y	(g)	N	2
UN0234	SODIUM DINITRO-o-CRESOLATE, dry or wetted with less than 15% water, by mass	1.3C	Y			Y	
UN0235	SODIUM PICRAMATE, dry or wetted with less than 20% water, by mass	1.3C	Y			Y	
UN0477	SUBSTANCES, EXPLOSIVE, N.O.S.	1.3C	Y			Y	
UN0236	ZIRCONIUM PICRAMATE, dry or wetted with less than 20% water, by mass	1.3C	Y			Y	
UN0254	AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	1.3G		Y	(g)	N	1,2
UN0010	AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	1.3G		Y	(g)	N	1,2
UN0488	AMMUNITION, PRACTICE	1.3G		Y	(g)	N	1,2
UN0016	AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	1.3G		Y	(g)	N	1,2
UN0019	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	1.3G		Y	(g)	N	1,2
UN0430	ARTICLES, PYROTECHNIC for technical purposes	1.3G		Y	(f)	N	1,2
UN0299	BOMBS, PHOTO-FLASH	1.3G		Y	(g)	N	1,2
UN0050	CARTRIDGES, FLASH	1.3G				N	1
UN0054	CARTRIDGES, SIGNAL	1.3G		Y	(f)	N	1,2

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UN0335	FIREWORKS	1.3G		Y	(f)	N	1,2
UN0093	FLARES, AERIAL	1.3G		Y	(f)	N	1,2
UN0092	FLARES, SURFACE	1.3G		Y	(f)	N	1,2
UN0305	FLASH POWDER	1.3G				N	1
UN0101	FUSE, NON-DETONATING	1.3G		Y	(c)	N	1,2
UN0316	FUZES, IGNITING	1.3G				N	1
UN0318	GRENADES, PRACTICE, hand or rifle	1.3G		Y	(g)	N	1,2
UN0315	IGNITERS	1.3G				N	1
UN0319	PRIMERS, TUBULAR	1.3G				N	1
UN0424	PROJECTILES, inert with tracer	1.3G		Y	(g)	N	1,2
UN0240	ROCKETS, LINE-THROWING	1.3G		Y	(g)	N	1,2
UN0195	SIGNALS, DISTRESS, ship	1.3G		Y	(f)	N	1,2
UN0492	SIGNALS, RAILWAY TRACK, EXPLOSIVE	1.3G		Y	(f)	N	1,2
UN0487	SIGNALS, SMOKE	1.3G		Y	(f)	N	1,2
UN0478	SUBSTANCES, EXPLOSIVE, N.O.S.	1.3G				N	1
UN0212	TRACERS FOR AMMUNITION	1.3G				N	1
UN0244	AMMUNITION, INCENDIARY, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	1.3H		Y	(g)	N	1,2
UN0246	AMMUNITION, SMOKE, WHITE PHOSPHORUS with burster, expelling charge or propelling charge	1.3H		Y	(g)	N	1,2
UN0247	AMMUNITION, INCENDIARY, liquid or gel, with burster, expelling charge or propelling charge	1.3J		Y	(g)	N	1,2
UN0396	ROCKET MOTORS, LIQUID FUELLED	1.3J		Y	(g)	N	1,2
UN0450	TORPEDOES, LIQUID FUELLED with inert head	1.3J			(g)	N	1,2
UN0021	AMMUNITION, TOXIC with burster, expelling charge or propelling charge	1.3K		Y	(g)	N	1,2

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				Exclusion Applies?	Exclusion Reference		
UN0356	ARTICLES, EXPLOSIVE, N.O.S.	1.3L				N	1
UN0249	CONTRIVANCES, WATER-ACTIVATED with burster, expelling charge or propelling charge	1.3L				N	1
UN0250	ROCKET MOTORS WITH HYPERGOLIC LIQUIDS with or without expelling charge	1.3L		Y	(g)	N	1,2
UN0359	SUBSTANCES, EXPLOSIVE, N.O.S.	1.3L				N	1
UN0350	ARTICLES, EXPLOSIVE, N.O.S.	1.4B				N	1
UN0383	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	1.4B				N	1
UN0361	DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	1.4B	Y			Y	
UN0365	DETONATORS FOR AMMUNITION	1.4B	Y	Y	(g)	N	2
UN0255	DETONATORS, ELECTRIC for blasting	1.4B	Y			Y	
UN0267	DETONATORS, NON-ELECTRIC for blasting	1.4B	Y			Y	
UN0257	FUZES, DETONATING	1.4B				N	1
UN0378	PRIMERS, CAP TYPE	1.4B		Y	(e)	N	1,2
UN0448	5-MERCAPTOTETRAZOL-1-ACETIC ACID	1.4C				N	1
UN0351	ARTICLES, EXPLOSIVE, N.O.S.	1.4C				N	1
UN0338	CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK	1.4C		Y	(g)	N	1,2
UN0339	CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS	1.4C		Y	(g)	N	1,2
UN0278	CARTRIDGES, OIL WELL	1.4C				N	1
UN0276	CARTRIDGES, POWER DEVICE	1.4C				N	1
UN0379	CASES, CARTRIDGE, EMPTY, WITH PRIMER	1.4C				N	1
UN0446	CASES, COMBUSTIBLE, EMPTY, WITHOUT PRIMER	1.4C				N	1
UN0491	CHARGES, PROPELLING	1.4C				N	1
UN0509	POWDER, SMOKELESS	1.4C				N	1
UN0501	PROPELLANT, SOLID	1.4C				N	1

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UN0438	ROCKETS with expelling charge	1.4C		Y	(g)	N	1,2
UN0479	SUBSTANCES, EXPLOSIVE, N.O.S.	1.4C				N	1
UN0407	TETRAZOL-1-ACETIC ACID	1.4C				N	1
UN0352	ARTICLES, EXPLOSIVE, N.O.S.	1.4D				N	1
UN0459	CHARGES, BURSTING, PLASTICS BONDED	1.4D				N	1
UN0444	CHARGES, EXPLOSIVE, COMMERCIAL without detonator	1.4D				N	1
UN0237	CHARGES, SHAPED, FLEXIBLE, LINEAR	1.4D	Y			Y	
UN0440	CHARGES, SHAPED, without detonator	1.4D	Y			Y	
UN0104	CORD (FUSE), DETONATING, MILD EFFECT, metal clad	1.4D	Y			Y	
UN0289	CORD, DETONATING, flexible	1.4D	Y			Y	
UN0410	FUZES, DETONATING with protective features	1.4D				N	1
UN0494	JET PERFORATING GUNS, CHARGED, oil well, without detonator	1.4D				N	1
UN0347	PROJECTILES with burster or expelling charge	1.4D		Y	(g)	N	1,2
UN0344	PROJECTILES with bursting charge	1.4D		Y	(g)	N	1,2
UN0480	SUBSTANCES, EXPLOSIVE, N.O.S.	1.4D				N	1
UN0370	WARHEADS, ROCKET with burster or expelling charge	1.4D		Y	(g)	N	1,2
UN0471	ARTICLES, EXPLOSIVE, N.O.S.	1.4E				N	1
UN0412	CARTRIDGES FOR WEAPONS with bursting charge	1.4E		Y	(g)	N	1,2
UN0472	ARTICLES, EXPLOSIVE, N.O.S.	1.4F				N	1
UN0348	CARTRIDGES FOR WEAPONS with bursting charge	1.4F		Y	(g)	N	1,2
UN0427	PROJECTILES with burster or expelling charge	1.4F		Y	(g)	N	1,2
UN0371	WARHEADS, ROCKET with burster or expelling charge	1.4F		Y	(g)	N	1,2

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UN0297	AMMUNITION, ILLUMINATING with or without burster, expelling charge or propelling charge	1.4G		Y	(g)	N	1,2
UN0300	AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	1.4G		Y	(g)	N	1,2
UN0362	AMMUNITION, PRACTICE	1.4G		Y	(g)	N	1,2
UN0363	AMMUNITION, PROOF	1.4G		Y	(g)	N	1,2
UN0303	AMMUNITION, SMOKE with or without burster, expelling charge or propelling charge	1.4G		Y	(g)	N	1,2
UN0301	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	1.4G		Y	(g)	N	1,2
UN0353	ARTICLES, EXPLOSIVE, N.O.S.	1.4G				N	1
UN0431	ARTICLES, PYROTECHNIC for technical purposes	1.4G		Y	(f)	N	1,2
UN0312	CARTRIDGES, SIGNAL	1.4G		Y	(f)	N	1,2
UN0066	CORD, IGNITER	1.4G				N	1
UN0336	FIREWORKS	1.4G		Y	(f)	N	1,2
UN0403	FLARES, AERIAL	1.4G		Y	(f)	N	1,2
UN0103	FUSE, IGNITER, tubular, metal clad	1.4G		Y	(c)	N	1,2
UN0317	FUZES, IGNITING	1.4G				N	1
UN0452	GRENADES, PRACTICE, hand or rifle	1.4G		Y	(g)	N	1,2
UN0325	IGNITERS	1.4G				N	1
UN0320	PRIMERS, TUBULAR	1.4G				N	1
UN0435	PROJECTILES with burster or expelling charge	1.4G		Y	(g)	N	1,2
UN0425	PROJECTILES, inert with tracer	1.4G		Y	(g)	N	1,2
UN0453	ROCKETS, LINE-THROWING	1.4G		Y	(g)	N	1,2
UN0503	SAFETY DEVICES, PYROTECHNIC	1.4G				N	1
UN0191	SIGNAL DEVICES, HAND	1.4G		Y	(f)	N	1,2
UN0505	SIGNALS, DISTRESS, ship	1.4G		Y	(f)	N	1,2

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UN0493	SIGNALS, RAILWAY TRACK, EXPLOSIVE	1.4G		Y	(f)	N	1,2
UN0197	SIGNALS, SMOKE	1.4G		Y	(f)	N	1,2
UN0485	SUBSTANCES, EXPLOSIVE, N.O.S.	1.4G				N	1
UN0306	TRACERS FOR AMMUNITION	1.4G				N	1
UN0349	ARTICLES, EXPLOSIVE, N.O.S.	1.4S				N	1
UN0432	ARTICLES, PYROTECHNIC for technical purposes	1.4S		Y	(f)	N	1,2
UN0014	CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK or CARTRIDGES FOR TOOLS, BLANK	1.4S		Y	(g)	N	1,2
UN0012	CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS	1.4S		Y	(g)	N	1,2
UN0323	CARTRIDGES, POWER DEVICE	1.4S				N	1
UN0405	CARTRIDGES, SIGNAL	1.4S		Y	(f)	N	1,2
UN0055	CASES, CARTRIDGE, EMPTY, WITH PRIMER	1.4S				N	1
UN0460	CHARGES, BURSTING, PLASTICS BONDED	1.4S				N	1
UN0445	CHARGES, EXPLOSIVE, COMMERCIAL without detonator	1.4S				N	1
UN0441	CHARGES, SHAPED, without detonator	1.4S	Y			Y	
UN0384	COMPONENTS, EXPLOSIVE TRAIN, N.O.S.	1.4S				N	1
UN0070	CUTTERS, CABLE, EXPLOSIVE	1.4S		Y	(f)	N	1,2
UN0500	DETONATOR ASSEMBLIES, NON-ELECTRIC for blasting	1.4S	Y			Y	
UN0366	DETONATORS FOR AMMUNITION	1.4S	Y	Y	(g)	N	2
UN0456	DETONATORS, ELECTRIC for blasting	1.4S	Y			Y	
UN0455	DETONATORS, NON-ELECTRIC for blasting	1.4S	Y			Y	
UN0337	FIREWORKS	1.4S		Y	(f)	N	1,2

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UN0404	FLARES, AERIAL	1.4S		Y	(f)	N	1,2
UN0105	FUSE, SAFETY	1.4S		Y	(d)	N	1,2
UN0367	FUZES, DETONATING	1.4S				N	1
UN0368	FUZES, IGNITING	1.4S				N	1
UN0110	GRENADES, PRACTICE, hand or rifle	1.4S		Y	(g)	N	1,2
UN0454	IGNITERS	1.4S				N	1
UN0131	LIGHTERS, FUSE	1.4S				N	1
UN0044	PRIMERS, CAP TYPE	1.4S		Y	(e)	N	1,2
UN0376	PRIMERS, TUBULAR	1.4S				N	1
UN0345	PROJECTILES, inert with tracer	1.4S		Y	(g)	N	1,2
UN0173	RELEASE DEVICES, EXPLOSIVE	1.4S		Y	(f)	N	1,2
UN0174	RIVETS, EXPLOSIVE	1.4S		Y	(f)	N	1,2
UN0373	SIGNAL DEVICES, HAND	1.4S		Y	(f)	N	1,2
UN0506	SIGNALS, DISTRESS, ship	1.4S		Y	(f)	N	1,2
UN0193	SIGNALS, RAILWAY TRACK, EXPLOSIVE	1.4S		Y	(f)	N	1,2
UN0507	SIGNALS, SMOKE	1.4S		Y	(f)	N	1,2
UN0481	SUBSTANCES, EXPLOSIVE, N.O.S.	1.4S				N	1
UN0331	EXPLOSIVE, BLASTING, TYPE B (AGENT, BLASTING, TYPE B)	1.5D	Y			Y	
UN0332	EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)	1.5D	Y			Y	
UN0482	SUBSTANCES, EXPLOSIVE, VERY INSENSITIVE (SUBSTANCES, EVI), N.O.S.	1.5D	Y			Y	
UN0486	ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES, EEI)	1.6N				N	1

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