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Liuyang Wenhua Mountain Trading Co., Ltd
Xianglong Village, Wenjiashi Town
LIUYNAG, HUNAN
CHINA

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Subject

ADR approval for fireworks to special provisions 645.

Date

21 December 2021

Our reference

21/EM0665

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Project number

060.51331/01.46

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Dear Sir,

Attached the ADR authorization approval for the following fireworks products classified as:

- FIREWORKS, Hazard Division 1.4G, UN-code 0336;
- FIREWORKS, Hazard Division 1.3G, UN-code 0335.

The Dutch competent authority has approved the transport classification for the articles according to special provision 645 of the ADR.

According to the special provisions for Class 1 (ADR paragraph 5.4.1.2.1.(g)), when fireworks of UN Nos. 0333, 0334, 0335, 0336 and 0337 are carried, the transport document shall bear the following inscription:

"Classification of fireworks by the competent authority of NL with fireworks reference NL/YYZZZZ" (YY=TNO, ZZZZ=unique serial reference).

The reference authorization number is as follows: NL/TNO-0600-2021.

Yours faithfully,

M.W.L. Dirkse
Classification Expert
Energetic Materials

The General Terms and Conditions for commissions to TNO, as filed with the Registry of the District Court in the Hague and with the Chamber of Commerce and Industry in The Hague, shall apply to all commissions to TNO. Our General Terms and Conditions are also available on our website www.tno.nl. A copy will be sent upon request.

Trade register number 27376655.

APPROVAL

1	Approval number	21EM/0665	Date 21 December 2021
2	Issued by	The competent authority of the Netherlands for the classification of explosives for road and rail transport ¹ . TNO Ypenburgse Boslaan 2 2496 ZA The Hague The Netherlands	Our reference 21/EM0665 Page 2/5
3	Applicant	Liuyang Wenhua Mountain Trading Co., Ltd Xianglong Village, Wenjiashi Town Liuyang, Hunan China	
4	Synopsis	The material specified in paragraph 8 is approved for transportation under the terms specified in paragraphs 9 and 10.	
5	Relevant regulations	<ul style="list-style-type: none"> • Recommendations on the Transport of Dangerous Goods, twenty-first revised edition, 2019, United Nations, New York and Geneva (ST/SG/AC.10.1/Rev.21), • Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, seventh revised edition, 2019, United Nations, New York and Geneva (ST/SG/AC.10.11/Rev.7), • European Agreement concerning the international carriage of dangerous goods by road (ADR), • European Agreement concerning the international carriage of dangerous goods by rail (RID). • International Civil Aviation Organisation (ICAO). • International Maritime Organisation (IMO) Regulations. 	
6	Relevant parts	2.2.1.1.2 and 2.2.1.1.4 of the ADR.	
7	Basis	<ol style="list-style-type: none"> 1. Technical datasheets delivered by the applicant (<i>TNO is not responsible for the content of these datasheets</i>) 2. Default list of the classification of fireworks (ADR). 	

¹ Appendix 3: Arrangement land transport of dangerous goods. Appendix 3: Arrangement rail transport of dangerous goods.

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8	Type of articles	Fireworks	Date 21 December 2021
9	Article number/name	See Appendix	Our reference 21/EM0665
10	NEM	See Appendix	Page 3/5
11	Class or division	1.4G and 1.3G	
	UN number	0336 and 0335	
	Proper shipping name	FIREWORKS	
12	Packaging method	4G cardboard packaging. Packaging instruction P135 (Paragraph 4.1.4, ADR).	
13	Conditions	All other requirements of international transport regulations have to be met as well.	
14	Remarks	A copy of this approval shall be attached to the dangerous goods transport documents and must accompany the above mentioned dangerous goods.	
15	Reference for authorization	NL/TNO-0600-2021	
16	Date	21 December 2021	
17	Authorization		

M.W.L. Dirkse
Classification Expert

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Appendix: Overview of fireworks belonging to Liuyang Wenhua Mountain Trading Co., Ltd.

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Table 1 Fireworks classified as hazard division 1.4G UN0336 and 1.3G UN0335.

Item Number	Name/Description	Type	Sub Type	NEM [g]	Class	UN-code	Packaging Code	CE Marking Number
500014000	16 Shots cake	Battery	Shot tubes	436,80	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F3-201-003-03
500032000	20 Shots cake	Battery	Shot tubes	422,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F2-201-052-03
500053000	25 Shots cake	Battery	Shot tubes	379,50	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F2-201-056-03
500061000	25 Shots cake	Battery	Shot tubes	245,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F2-201-057-03
500096000	50 Shots cake	Battery	Shot tubes	391,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F2-201-063-03
500106000	100 Shots cake	Battery	Shot tubes	1600,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F4-201-065-03
500198000	40 Shots cake	Battery	Shot tubes	568,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F3-201-021-03
500207000	40 Shots cake	Battery	Shot tubes	568,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F3-201-021-03
500208000	40 Shots cake	Battery	Shot tubes	528,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F3-201-021-03
500260000	40 Shots cake	Battery	Shot tubes	632,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1646-F3-201-022-03
500320000	30 Shots cake	Battery	Shot tubes	300,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1395-F2-0178/2018
500326000	30 Shots cake	Battery	Shot tubes	300,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1395-F2-0178/2018
500343000	40 Shots cake	Battery	Shot tubes	860,00	1.4G	0336	4G/Y ¹ /S ² / ^β	1395-F3-0014/2019
504010000	9 Shots cake	Battery	Shot tubes	166,50	1.4G	0336	4G/Y ¹ /S ² / ^β	1395-F4-0012/2019
503034000	-	Fountain	-	6,00	1.4G	0336	4G/Y ¹ /S ² / ^β	0163-T1-1128
510001000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510004000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510005000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510007000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510008000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510009000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-037-37
510034000	4 Inch shell	Shell	Spherical	271,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-082-37
510036000	4 Inch shell	Shell	Spherical	271,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-082-37
510042000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-082-37
510045000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-036-37
510155000	4 Inch shell	Shell	Spherical	336,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-036-37
510405000	4 Inch shell	Shell	Cylindrical	260,50	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-029-37
510418000	4 Inch shell	Shell	Spherical	199,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-027-37
510419000	4 Inch shell	Shell	Spherical	199,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-027-37
512043000	5 Inch shell	Shell	Spherical	700,00	1.3G	0335	4G/Y ¹ /S ² / ^β	0163-F4-1786
515004000	6 Inch shell	Shell	Spherical	1112,00	1.3G	0335	4G/Y ¹ /S ² / ^β	2806-F4-001387
515024000	6 Inch shell	Shell	Spherical	830,00	1.3G	0335	4G/Y ¹ /S ² / ^β	2806-F4-001388
515027000	6 Inch shell	Shell	Spherical	830,00	1.3G	0335	4G/Y ¹ /S ² / ^β	2806-F4-001388
575107000	3 Inch shell	Shell	Spherical	121,00	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-077-37
575117000	3 Inch shell	Shell	Spherical	150,50	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-075-37
575494000	3 Inch shell	Shell	Spherical	98,50	1.3G	0335	4G/Y ¹ /S ² / ^β	1646-F4-201-025-37

- 1) Gross mass in kilograms
- 2) Year of production
- 3) Optional and additional information

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Table 2 Compound products classified as hazard division 1.3G UN0335.

Item Number	Article Number	Name/ Description	Type	Sub Type	NEM [g]	Class	UN- code	Packaging Code	CE Marking Number
502-046-000	-	-	Compound	-	2693,00	1.4G	0336	4G/Y¹/S^{2/3}	1008-F3-69255509
	502-046-000A	65 Shots cake	Battery	Shot tubes	859,60				1008-F3-69255505
	502-046-000B	77 Shots cake	Battery	Shot tubes	996,50				1008-F3-69255505
	502-046-000C	84 Shots cake	Battery	Shot tubes	836,90				1008-F3-69255506
502-047-000	-	-	Compound	-	1540,20	1.4G	0336	4G/Y¹/S^{2/3}	1008-F3-69255508
	502-047-000A	52 Shots cake	Battery	Shot tubes	924,40				1008-F3-69255505
	502-047-000B	53 Shots cake	Battery	Shot tubes	615,80				1008-F3-69255507
502-048-000/CMCP-007	-	-	Compound	-	3689,40	1.4G	0336	4G/Y¹/S^{2/3}	2806-F3-003080
	502-046-000A	65 Shots cake	Battery	Shot tubes	859,60				1008-F3-69255505
	502-046-000B	77 Shots cake	Battery	Shot tubes	996,50				1008-F3-69255505
	502-046-000C	84 shots cake	Battery	Shot tubes	836,90				1008-F3-69255506
	CMCP-007C	70 Shots cake	Battery	Shot tubes	996,40				2806-F3-003016

- 1) Gross mass in kilograms
- 2) Year of production
- 3) Optional and additional information