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UN0012: LQ AMMUNITION BY U.S. DOMESTIC ROAD & RAIL “LOOSE-UNORIENTED” USING DOT-SPECIAL PERMIT 21114

DEFINITION OF “LOOSE-UNORIENTED”: A package containing ammunition where the ammunition is neither organized by trays, stacked to face the same direction, nor other method. Bullets or rims of cartridges may be in direct contact with primers of other cartridges.

COMMODITY: Small arms ammunition (centerfire, rimfire, and shotshell)

SPECIAL: Limited Quantity of Division 1.4S: Rifle – 358 caliber and smaller; Pistol – 45 caliber and smaller; Shotgun – 10 gauge and smaller

MODE OF TRANSPORTATION: U.S. Domestic Road and Rail

OVERVIEW

PROPER SHIPPING NAME: Cartridges, small arms	LABEL: No
IDENTIFICATION NUMBER: UN0012	PLACARD: No
HAZARD CLASS/DIVISION: 1.4S	EMERGENCY INFORMATION: None
PACKING GROUP: None	TRAINING: Required
DOCUMENT: No	PACKAGING: Non-special
MARKING: LQ Mark, DOT-SP 21114	-

HAZMAT TABLE

Sym-bols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identifi-cation Numbers	PG	Label Codes	Special provisions (§172.102)	(8) Packaging (§173.***)			(9) Quantity Limitations (see §§173.27 and 175.75)		(10) Vessel stowage	
							Excep-tions	Non-bulk	Bulk	Passenger aircraft/ rail	Cargo aircraft only	Loca-tion	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Cartridges, small arms	1.4S	UN0012		None		63	62	None	25kg	100kg	01	25

CLASSIFICATION

The packaging must be tested and certified in accordance with Part 178.

Cartridges, small arms 50 caliber or less with inert bullets (including tracers but no incendiary or exploding bullets) may be self-classified by the manufacturer as UN0012, Cartridges, small arms, Division 1.4S explosive per 173.56(h). No EX-approval is required. Such ammunition may be shipped as a Limited Quantity within the parameters of 173.63(b). Ammunition in a configuration not meeting the requirements of 173.63(b) may still be eligible to ship as LQ under the terms of DOT-Special Permit 21114. Party status is available and may be required to ship pursuant to the terms of this special permit.

Citation: 49 CFR §§ 173.56(h), 173.63(b); DOT-SP 21114.

PACKAGING INFORMATION

Cartridges, small arms that have been classed as Division 1.4S explosives and packaged in a loose-unoriented configuration may be transported pursuant to DOT-SP 21114 when packaged as follows:

- Combination packagings must be used and must conform to the following:
 - Inner packaging: Bags, receptacles, or boxes.
 - Outer packaging: All outer packagings listed in § 173.62(c), Table 2, Packing Instruction 130 of the HMR are authorized.

Packing Instruction	Inner packagings	Intermediate packagings	Outer packagings
130	[Omitted]	[Omitted]	Boxes, Drums, Large Packagings
[Omitted]			<p><i>Boxes.</i></p> <p>steel (4A) aluminum (4B) other metal (4N) wood natural, ordinary (4C1) wood natural, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fiberboard (4G) plastics, expanded (4H1) plastics, solid (4H2)</p> <p><i>Drums.</i></p> <p>steel (1A1 or 1A2) aluminum (1B1 or 1B2) other metal (1N1 or 1N2) plywood (1D) fiber (1G) plastics (1H1 or 1H2)</p> <p><i>Large Packagings.</i></p> <p>steel (50A) aluminum (50B) metal other than steel or aluminum (50N)</p>

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			rigid plastics (50H) natural wood (50C) plywood (50D) reconstituted wood (50F) rigid fiberboard (50G)
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- The maximum gross weight must not exceed 30 kg (66 pounds) per package.

Packages must be capable of passing the UN 6(d) unconfined package test and UN 4(b)(ii) drop test modified to a height of 5 meters. If all requirements of this section and the above section named “Classification” are satisfied, distributors have limited authorization to replace the original outer packaging with a strong outer packaging for reshipment. Distributors must follow applicable shipping regulations and the requirements of DOT-SP 21114 ¶¶ 7(c)(1), 7(c)(2) when repackaging:

“7. SAFETY CONTROL MEASURES:

c. REPACKAGING:

- (1) Inner packaging: As removed from the grantee’s original package, and limited to boxes or receptacles only.
- (2) Outer packaging: strong outer packaging meeting the construction requirements of a standard in Part 178 Subpart L. The completed package need not be tested or certified to Part 178 Subpart M nor retested to paragraph 7.b. above. Additionally, if a fiberboard box is used as the strong outer packaging, the fiberboard box must:
 - (i) Meet or exceed the standard for 275-pound test Mullen or 44 ECT; and
 - (ii) Be reinforced on all sides with clear plastic shipping wrap; or
 - (iii) Be overpacked in a fiberboard box.”

Citation: DOT-SP 21114.

SHIPPING PAPER REQUIREMENTS

Shipments made pursuant to DOT-SP 21114 need not notate the special permit number on the shipping paper for transportation by motor vehicle or rail freight.

Documentation requirements are waived when transported by road or rail. LQ ammo is still hazmat, but it is not marked “HM” on the shipping document because it is not subject to documentation requirements. “Cartridges, small arms” or other identifying information should be listed in the description.

Citation: 49 CFR § 173.63(b)(1)(i).

PACKAGE MARKING

Limited quantity packages containing Cartridges, small arms or cartridges for tools, blank must display the limited quantity marking on one side. In addition, each carton may have to be marked with the consignor’s or the consignee’s name and address; see 49 CFR § 172.301(d) for

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exceptions*. No UN number or proper shipping name markings are required. The UN package manufacturer's certification is not mandatory for LQ packages shipped domestically, but it is required internationally. Most manufacturers use the same box for domestic and international shipments and mark the box with the certification and their address.

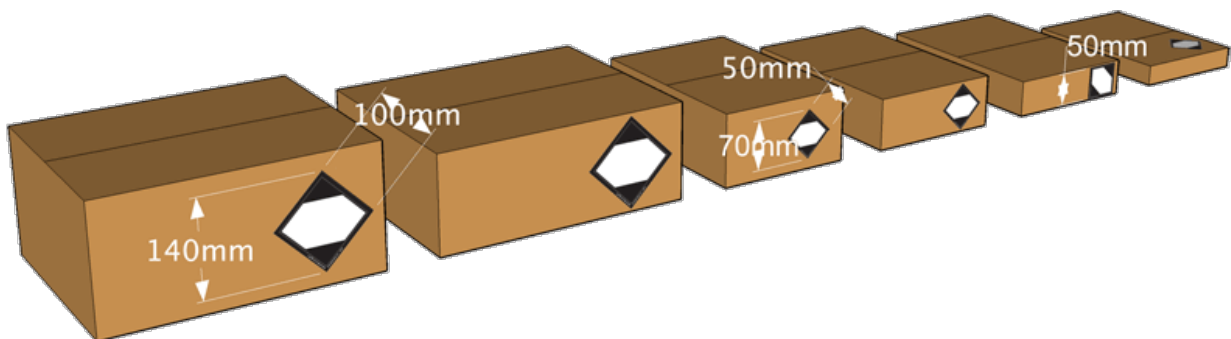
TYPICAL MANUFACTURER APPROACH



MINIMUM PACKAGE MARKING



SIZE GUIDANCE



The LQ marking must generally be 100 mm, but may be reduced to 50 mm if the height of the side of the packaging does not permit use of the 100 mm sized marking. If necessary based on size, small LQ markings may be turned 45 degrees, i.e. oriented to appear as a square rather than a square-on-point, or the marking may be placed on top of the packaging. The reduction of space from use of other markings is not a justification to reduce the LQ mark.

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*Per 49 CFR § 172.301(d), the package must be marked with the consignor or consignee's name and address unless the package is: (1) Transported by highway only and will not be transferred from one carrier to another; (2) Part of a carload lot, truckload lot or freight container load, and the entire contents of the rail car, truck or freight container are shipped from one consignor to one consignee. Citation: 49 CFR §§ 173.63(b)(1)(i), 172.301(d), 172.315(a).

OVERPACKS

The "Limited Quantity" and "overpack" stickers are required on one side of the pallet or overpack box.



Citation: 49 CFR § 173.25(a)(6).