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**UN 0378, Primers, cap type, 1.4B
BY U.S. DOMESTIC ROAD & RAIL**

COMMODITY: Small arms primers
MODE OF TRANSPORTATION: U.S. Domestic Road and Rail

OVERVIEW

PROPER SHIPPING NAME: Primers, cap type	LABEL: 1.4B
IDENTIFICATION NUMBER: UN0378	PLACARD: Over 1,000#
HAZARD CLASS/DIVISION: 1.4B	EMERGENCY INFORMATION: Yes
PACKING GROUP: None	TRAINING: Required
SHIPPING PAPER: Yes	PACKAGING: PI 133
MARK: No	-

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 (9A)	Cargo aircraft only (9B)	Loca-tion	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Primers, cap type	1.4B	UN0378		1.4B		None	62	None	Forbidden	75kg	05	25

CLASSIFICATION

Primers, cap type are required to have an explosives approval by the U.S. D.O.T. Primers, cap type, 1.4B are reviewed in this document.

Citation: 49 CFR § 173.56.

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PACKAGING INFORMATION

PACKAGING:

Package the primers as follows:

(1) Primers must be packed according to Packing Instruction 133:

Packing Instruction	Inner packagings	Intermediate packagings	Outer packagings
133	Receptacles, Trays	Intermediate packagings are only needed when trays are used as inner packages	Boxes
PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS: 1. For UN 0043, 0212, 0225, 0268 and 0306 trays are not authorized as inner packagings	<i>Receptacles.</i> fiberboard metal plastics wood <i>Trays, fitted with dividing partitions.</i> fiberboard plastics wood	<i>Receptacles.</i> fiberboard metal plastics wood	<i>Boxes.</i> 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, solid (4H2)

(2) The maximum gross weight is limited to 400 kg (882 pounds) per package.

(3) Comply with any packing note in the EX approval.

Citation: 49 C.F.R. § 173.62.

SHIPPING PAPER REQUIREMENTS

(1) Use the following shipping description without modification:

“UN 0378, Primers, cap type, 1.4B”

(2) The total quantity before or after the shipping description, in pounds and/or kilograms (lb or kg), covered by the shipping description in terms of net explosive mass, or net mass, i.e. the weight of the primer mix in the primers or the weight of the primers without any packaging.

(3) The number and type of packages, before or after the shipping description, e.g. “10 boxes.” Commonly understood abbreviations may be used, e.g., “bx.”

Citation: 49 CFR § 172.202(a).

PACKAGE MARKS & HAZARD LABEL

Packages containing small arms primers must display the following markings and label on one side as follows:

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- (1) “UN 0378” ¼” tall for 30 kg max, or an appropriate size for 5 kg max, or ½” tall above 30 kg
- (2) “PRIMERS, CAP TYPE”;
- (3) the specification package mark; and
- (4) the 1.4B explosives hazard label.

In addition, each package may need to be marked with the consignor’s or the consignee’s name and address, unless the package is: (1) transported by highway only and will not be transferred from one carrier to the other; or (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. 49 CFR § 172.301(d).

TYPICAL MANUFACTURER APPROACH



OVERPACKS

An overpack is: (1) a pallet; (2) a specification packaging within a non-spec packaging, normally used for consolidation.

Scenario 1. When using a pallet or fiberboard box or other packaging to overpack the primer specification packaging, if all the required hazard communication is not visible at least once through the stretch wrap or packaging, duplicate the required hazard communication from the specification packaging and add the “OVERPACK” mark.

For pallets over 64 cubic feet in volume, place the 1.4B hazard label on two sides.

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Examples of Scenario 1



Scenario 2. If an LQ product is also present in addition to the primers, also apply the LQ mark to the overpack if the LQ mark cannot be seen at least once within the overpack.

Example of Scenario 2



Citation: 49 CFR § 173.25(a).