

and may not exceed 30 kg (66 pounds) gross weight. Except for transportation by aircraft, the following combination packagings are authorized:

(1) For miscellaneous materials in Packing Group II, inner packagings not over 1.0 L (0.3 gallon) net capacity each for liquids or not over 1.0 kg (2.2 pounds) net capacity each for solids, packed in a strong outer packaging.

(2) For miscellaneous materials in Packing Group III, inner packagings not over 5.0 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging.

(c) [Reserved]

(d) *Reverse logistics*. Except for Lithium batteries, hazardous materials meeting the definition of “reverse logistics” under §171.8 of this subchapter and in compliance with paragraph (b) of this section may be offered for transport and transported in highway transportation in accordance with §173.157.

[Amdt. 173–224, 55 FR 52634, Dec. 21, 1990, as amended at 56 FR 66270, Dec. 20, 1991; Amdt. 173–231, 57 FR 52940, Nov. 5, 1992; Amdt. 173–253, 61 FR 27174, May 30, 1996; 71 FR 14603, Mar. 22, 2006; 76 FR 3375, Jan. 19, 2011; 78 FR 1114, Jan. 7, 2013; 81 FR 18540, Mar. 31, 2016; 87 FR 79776, Dec. 27, 2022]

**§ 173.156 Exceptions for limited quantity materials.**

(a) *Applicability*. Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 Table or in a packaging section in this part.

(b) *Additional packaging exceptions*. Packagings for limited quantity materials are specified according to hazard class in §§173.150 through 173.155, 173.306, and 173.309(b). In addition to exceptions provided for limited quantity materials elsewhere in this part, the following are provided:

(1) Strong outer packagings as specified in this part, marking requirements specified in subpart D of part 172 of this subchapter, and the 30 kg (66 pounds) gross weight limitation when—

(i) Unitized in cages, carts, boxes or similar overpacks;

(ii) Offered for transportation or transported by:

(A) Rail;

(B) Private or contract motor carrier; or

(C) Common carrier in a vehicle under exclusive use for such service; and

(iii) Transported to or from a manufacturer, a distribution center, or a retail outlet, or transported to a disposal facility from one offeror.

(2) The 30 kg (66 pounds) gross weight limitation does not apply to packages of limited quantity materials marked in accordance with §172.315 of this subchapter when offered for transportation or transported by highway or rail between a manufacturer, a distribution center, and a retail outlet provided—

(i) Inner packagings conform to the quantity limits for inner packagings specified in §§173.150(b), 173.152(b), 173.154(b), 173.155(b), 173.306(a) and (b), and 173.309(b), as appropriate;

(ii) The inner packagings are packed into corrugated fiberboard trays to prevent them from moving freely;

(iii) The trays are placed in a fiberboard box which is banded and secured to a metal, plastic, composite, or wooden pallet by metal, fabric, or plastic straps, to form a single palletized unit. Hazardous materials should be compatible with the pallet material;

(iv) The package conforms to the general packaging requirements of subpart B of this part; and

(v) The maximum net quantity of hazardous material permitted on one palletized unit is 250 kg (550 pounds).

(c) *Display packs*. Display packs, as defined in §171.8 of this subchapter, of consumer commodity or limited quantity packages that exceed 30 kg gross weight limitation may be transported by container/trailer in trailer-on-flat-car (TOFC) or container-on-flat-car (COFC) service, roadrunner and/or railrunner trailers, motor vehicle, or cargo vessel under the following conditions:

(1) *Packaging*. Combination packages must conform to the requirements of subpart B of this part and meet the following, as appropriate:

(i) Primary containers must conform to the quantity limits for inner packagings prescribed in §§173.150(b), 173.152(b), 173.154(b), 173.155(b) and 173.306(a) and (b), as appropriate;

(ii) Primary containers must be packed into trays that secure individual containers from shifting inside the completed combination package during transportation;

(iii) Tray(s) must be placed into a fiberboard box, and the fiberboard box must be banded and secured to a pallet by metal, fabric, or plastic straps to form a single palletized unit; and

(iv) The maximum net quantity of hazardous material permitted in one palletized unit is 550 kg (1,210 lbs.).

(2) *Marking.* The outside of each package must be plainly and durably marked in accordance with one of the following, as appropriate:

(i) As a consumer commodity as prescribed in § 172.316 of this subchapter; or

(ii) As a limited quantity as prescribed in § 172.315 of this subchapter.

(d) *Exceptions for waste limited quantity materials.* Exceptions for certain waste limited quantity materials are prescribed in § 173.12(h).

[78 FR 1114, Jan. 7, 2013, as amended at 78 FR 65481, Oct. 31, 2013; 80 FR 72924, Nov. 23, 2015; 81 FR 3673, Jan. 21, 2016; 83 FR 55809, Nov. 7, 2018; 87 FR 79776, Dec. 27, 2022]

**§ 173.157 Reverse logistics—General requirements and exceptions for reverse logistics.**

(a) *Authorized hazardous materials.* Hazardous materials may be offered for transport and transported in highway transportation under this section when they meet the definition of reverse logistics as defined under § 171.8 of this subchapter. However, hazardous materials that meet the definition of a hazardous waste as defined in § 171.8 of this subchapter are not permitted to be offered for transport or transported under this section. Hazardous materials authorized for transport according to a special permit as defined in § 171.8 of this subchapter must be offered for transportation and transported as authorized by the special permit.

(b) *When offered for transport or transported by non-private carrier.* Hazardous materials must be both authorized for limited quantity provisions as well as explicitly authorized for reverse logistics transportation under their applicable limited quantities section. Except

for alternative training provisions authorized under paragraph (e) of this section, all hazardous materials must otherwise meet the requirements for a limited quantity shipment.

(c) *When offered for transport or transported by private carrier.* Hazardous materials are authorized under paragraph (b) of this section or are subject to the following limitations:

(1) Division 1.4G materials offered for transport and transported in accordance with § 173.65 of this subchapter.

(2) When sold in retail facilities; Division 1.4G or 1.4S fireworks, Division 1.4G ammunition, or Division 1.4G or 1.4S flares. Shipments offered for transport or transported under this subparagraph are limited to 30 kg (66 pounds) per package. All explosive materials subject to an approval must meet the terms of the approval, including packaging required by the approval.

(3) Equipment powered by flammable liquids or flammable gases.

(i) *Flammable liquid-powered equipment.* The fuel tank and fuel lines of equipment powered by an internal combustion engine must be in the closed position, and all fuel tank caps or closures must be securely in place.

(ii) *Flammable gas-powered equipment.* A combustion engine using flammable gas fuel or other devices using flammable gas fuel (such as camping equipment, lighting devices, and torch kits) must have the flammable gas source disconnected and all shut-off devices in the closed position.

(4) Division 2.1 or 2.2 compressed gases weighing less than 66 pounds and sold as retail products. For the purposes of this section a cylinder or aerosol container may be assumed to meet the definition of a Division 2.1 or 2.2 materials, respectively, even if the exact pressure is unknown.

(5) Materials shipped under this paragraph (c) must also comply with the segregation requirements as required in § 177.848.

(6) Shipments made under this section are subject to the incident reporting requirements in § 171.15.

(d) *Hazard communication.* Hazardous materials offered for transportation and transported by private carrier in accordance with paragraph (c) of this