

■ 21. In § 173.2a, in the paragraph (b) Precedence of Hazard Table, the title of the table and the first three entries in

Precedence of Hazard Table are revised to read as follows:

**§ 173.2a Classification of a material having more than one hazard.**

\* \* \* \* \*

(b) \* \* \*

**PRECEDENCE OF HAZARD TABLE**  
[Hazard class or division and packing group]

	4.2	4.3	5.1 I <sup>1</sup>	5.1 II <sup>1</sup>	5.1 III <sup>1</sup>	6.1, I dermal	6.1, I oral	6.1 II	6.1 III	8, I liquid	8, I solid	8, II liquid	8.1 II solid	8, III liquid	8, III, solid
3 I <sup>2</sup> .....		4.3				3	3	3	3	3	(3)	3	(3)	3	(3)
3 II <sup>2</sup> .....		4.3				3	3	3	3	8	(3)	3	(3)	3	(3)
3 III <sup>2</sup> .....		4.3				6.1	6.1	6.1	3 <sup>4</sup>	8	(3)	8	(3)	3	(3)

<sup>2</sup> Materials of Division 4.1 other than self-reactive substances and solid desensitized explosives, and materials of Class 3 other than liquid desensitized explosives.

<sup>3</sup> Denotes an impossible combination.

<sup>4</sup> For pesticides only, where a material has the hazards of Class 3, Packing Group III, and Division 6.1, Packing Group III, the primary hazard is Division 6.1, Packing Group III.

■ 22. In § 173.21, paragraph (f)(3)(ii) is revised to read as follows:

**§ 173.21 Forbidden materials and packages.**

\* \* \* \* \*

(f) \* \* \*

(3) \* \* \*

(ii) For transportation by vessel, shipments are authorized in accordance with the control temperature requirements in Chapter 7.7 of the IMDG Code (incorporated by reference; see § 171.7 of this subchapter).

\* \* \* \* \*

■ 23. In § 173.22, paragraph (a)(4) is revised to read as follows:

**§ 173.22 Shipper's responsibility.**

(a) \* \* \*

(4) For a DOT Specification or UN standard packaging subject to the requirements of part 178 of this subchapter, a person must perform all functions necessary to bring the package into compliance with parts 173 and 178 of this subchapter, as identified by the packaging manufacturer or subsequent distributor (for example, applying closures consistent with the manufacturer's closure instructions) in accordance with § 178.2 of this subchapter.

\* \* \* \* \*

■ 24. In § 173.24, paragraphs (b) and (f) are revised to read as follows:

**§ 173.24 General requirements for packagings and packages.**

\* \* \* \* \*

(b) Each package used for the shipment of hazardous materials under this subchapter shall be designed, constructed, maintained, filled, its contents so limited, and closed, so that under conditions normally incident to transportation—

(1) Except as otherwise provided in this subchapter, there will be no identifiable (without the use of instruments) release of hazardous materials to the environment;

(2) The effectiveness of the package will not be substantially reduced; for example, impact resistance, strength, packaging compatibility, etc. must be maintained for the minimum and maximum temperatures, changes in humidity and pressure, and shocks, loadings and vibrations, normally encountered during transportation;

(3) There will be no mixture of gases or vapors in the package which could, through any credible spontaneous increase of heat or pressure, significantly reduce the effectiveness of the packaging;

(4) There will be no hazardous material residue adhering to the outside of the package during transport.

\* \* \* \* \*

(f) Closures. (1) Closures on packagings shall be so designed and closed that under conditions (including the effects of temperature, pressure and vibration) normally incident to transportation—

(i) Except as provided in paragraph (g) of this section, there is no identifiable release of hazardous materials to the environment from the opening to which the closure is applied; and

(ii) The closure is leakproof and secured against loosening. For air transport, stoppers, corks or other such friction closures must be held in place by positive means.

(2) Except as otherwise provided in this subchapter, a closure (including gaskets or other closure components, if any) used on a specification packaging must conform to all applicable requirements of the specification and must be closed in accordance with information, as applicable, provided by the manufacturer's notification required by § 178.2 of this subchapter.

\* \* \* \* \*

■ 25. In 173.25, paragraph (a)(2) is revised to read as follows:

**§ 173.25 Authorized packagings and overpacks.**

(a) \* \* \*

(2) The overpack is marked with the proper shipping name and identification number, the air eligibility marking, when applicable, and is labeled as required by this subchapter for each hazardous material contained therein, unless markings and labels representative of each hazardous material in the overpack are visible.

\* \* \* \* \*

■ 26. In § 173.27, paragraph (e) is revised, and a new paragraph (i) is added to read as follows:

**§ 173.27 General requirements for transportation by aircraft.**

\* \* \* \* \*

(e) Absorbent materials. Except as otherwise provided in this subchapter, liquid hazardous materials of Class 3, 4, or 8, or Division 5.1, 5.2 or 6.1 that are packaged and offered for transport in glass, earthenware, plastic or metal inner packagings must be packaged using absorbent material as follows:

(1) Packing Group I liquids on passenger aircraft must be packaged using materials capable of absorbing the entire contents of the inner packagings.

(2) Packing Group I liquids on cargo aircraft, and Packing Group II liquids including Division 5.2 liquids on passenger and cargo aircraft, must be packaged using a sufficient quantity of absorbent material to absorb the entire contents of any one of the inner packagings containing such liquids. When the inner packagings are of different sizes and quantities, sufficient absorbent material must be used to absorb the entire contents of the inner packaging with the greatest volume of liquid.

(3) When absorbent materials are required and the outer packaging is not liquid tight, a means of containing the liquid in the event of a leakage must be provided in the form of a leakproof liner, plastic bag or other equally efficient means of containment.