Pipeline and Hazardous Materials Safety Admin., DOT § 173.36

§ 173.36 Hazardous materials in Large Packagings.

(a) No person may offer or accept a hazardous material for transportation in a Large Packaging except as authorized by this subchapter. Except as otherwise provided in this subchapter, no Large Packaging may be filled with a Packing Group I or II material. Each Large Packaging used for the transportation of hazardous materials must conform to the requirements of its specification and regulations for the transportation of the particular commodity.

(b) Packaging design. (1) Inner pack-aging closures. A Large Packaging containing liquid hazardous materials must be packed so that closures on inner packagings are upright.

(2) Flexible Large Packagings. Flexible Large Packagings (e.g., 51H) are only authorized for use with flexible inner packagings.

(3) Friction. The nature and thickness of the outer packaging must be such that friction during transportation is not likely to generate an amount of heat sufficient to dangerously alter the chemical stability of the contents.

(4) Securing and cushioning. Inner packagings of Large Packagings must be packed, secured and cushioned to prevent their breakage or leakage and to control their shifting within the outer packaging under conditions normally incident to transportation. Cushioning material must not be capable of reacting dangerously with the contents of the inner packagings or having its protective properties significantly weakened in the event of leakage.

(5) Metallic devices. Nails, staples and other metallic devices must not protrude into the interior of the outer packaging in such a manner as to be likely to damage inner packagings or receptacles.

(c) Initial use and reuse of Large Packagings. A Large Packaging may be re-used. If an inner packaging is constructed of paper or flexible plastic, the inner packaging must be replaced before each reuse. Before a Large Packaging is filled and offered for transportation, the Large Packaging must be given an external visual inspection, by the person filling the Large Packaging, to ensure:

(1) The Large Packaging is free from corrosion, contamination, cracks, cuts, or other damage which would render it unable to pass the prescribed design type test to which it is certified and marked; and

(2) The Large Packaging is marked in accordance with requirements in §178.910 of this subchapter. Additional marking allowed for each design type may be present. Required markings that are missing, damaged or difficult to read must be restored or returned to original condition.

(d) During transportation—

(1) No hazardous material may remain on the outside of the Large Packaging; and

(2) Each Large Packaging must be securely fastened to or contained within the transport unit.

(e) Each Large Packaging used for transportation of solids which may become liquid at temperatures likely to be encountered during transportation may not be transported in paper or fiber inner packagings. The inner packagings must be capable of containing the substance in the liquid state.

(f) Liquid hazardous materials may only be offered for transportation in inner packagings appropriately resistant to an increase of internal pressure likely to develop during transportation.

(g) A Large Packaging used to transport hazardous materials may not exceed 3 cubic meters (106 cubic feet) capacity.

(h) Mixed contents. (1) An outer Large Packaging may contain more than one hazardous material only when—

(i) The inner and outer packagings used for each hazardous material conform to the relevant packaging sections of this part applicable to that hazardous material, and not result in a violation of §173.21;
§ 173.37 Hazardous Materials in Flexible Bulk Containers.

(a) No person may offer or accept a hazardous material for transportation in a Flexible Bulk Container except as authorized by this subchapter. Each Flexible Bulk Container used for the transportation of hazardous materials must conform to the requirements of its specification and regulations for the transportation of the particular commodity.

(b) Initial use and reuse of Flexible Bulk Containers. A Flexible Bulk Container may be reused. Before a Flexible Bulk Container is filled and offered for transportation, the Flexible Bulk Container must be given an external visual inspection by the person filling the Flexible Bulk Container to ensure:

(1) The Flexible Bulk Container is free from corrosion, contamination, cracks, cuts, or other damage that would render it unable to pass the prescribed design type test to which it is certified and marked; and

(2) The Flexible Bulk Container is marked in accordance with requirements in §178.1010 of this subchapter. Required markings that are missing, damaged or difficult to read must be restored or returned to original condition.

(3) The following components must be examined to determine structural serviceability:

(i) Textile slings;

(ii) Load-bearing structure straps;

(iii) Body fabric; and

(iv) Lock device parts including metal and textile parts are free from protrusions or damage.

(c) During transportation—

(1) No hazardous material may remain on the outside of the Flexible Bulk Container; and

(2) Each Flexible Bulk Container must be securely fastened to or contained within the transport unit.

(3) If restraints such as banding or straps are used, these straps must not be over-tightened to an extent that causes damage or deformation to the Flexible Bulk Container.

(4) Flexible Bulk Containers must be transported in a conveyance with rigid sides and ends that extend at least two-thirds of the height of the Flexible Bulk Container.

(5) Flexible Bulk Containers must not be stacked for highway or rail transportation.

(6) Flexible Bulk Containers must not be transported in cargo transport units when offered for transportation by vessel.

(7) Flexible Bulk Containers when transported by barge must be stowed in such a way that there are no void spaces between the Flexible Bulk Containers in the barge. If the Flexible Bulk Containers do not completely fill the barge, adequate measures must be taken to avoid shifting of cargo. The maximum permissible height of the stack of Flexible Bulk Containers must not exceed 3 containers high.

(d) A Flexible Bulk Container used to transport hazardous materials may not...