

- (3) Each neutron radiation detector must be of welded metal construction with brazed metal to ceramic feed through assemblies. These detectors must have a minimum burst pressure of 1800 kPa as demonstrated by design type qualification testing; and
  - (4) Each detector must be tested to a  $1 \times 10^{-10}$  cm<sup>3</sup>/s leaktightness standard before filling.
  - b. Radiation detectors transported as individual components must be transported as follows:
    - (1) They must be packed in a sealed intermediate plastic liner with sufficient absorbent or adsorbent material to absorb or adsorb the entire gas contents.
    - (2) They must be packed in strong outer packagings and the completed package must be capable of withstanding a 1.8 meter (5.9 feet) drop without leakage of gas contents from detectors.
    - (3) The total amount of gas from all detectors per outer packaging must not exceed 52 grams (1.83 ounces).
  - c. Completed neutron radiation detection systems containing detectors meeting the conditions of paragraph a(1) of this special provision must be transported as follows:
    - (1) The detectors must be contained in a strong sealed outer casing;
    - (2) The casing must contain include sufficient absorbent or adsorbent material to absorb or adsorb the entire gas contents;
    - (3) The completed system must be packed in strong outer packagings capable of withstanding a 1.8 meter (5.9 feet) drop test without leakage unless a system's outer casing affords equivalent protection.
  - d. Except for transportation by aircraft, neutron radiation detectors and radiation detection systems containing such detectors transported in accordance with paragraph a. of this special provision are not subject to the labeling and placarding requirements of part 172 of this subchapter.
  - e. When transported by highway, rail, vessel, or as cargo on an aircraft, neutron radiation detectors containing not more than 1 gram of boron trifluoride, including those with solder glass joints are not subject to any other requirements of this subchapter provided they meet the requirements in paragraph a(1) of this special provision and are packed in accordance with paragraph a(2) of this special provision. Radiation detection systems containing such detectors are not subject to any other requirements of this subchapter provided they are packed in accordance with paragraph a(3) of this special provision.
- 328 When lithium metal or lithium ion batteries are contained in the fuel cell system,

the item must be described under this entry and the appropriate entries for "Lithium metal batteries contained in equipment" or "Lithium ion batteries contained in equipment".

- 332 Magnesium nitrate hexahydrate is not subject to the requirements of this subchapter.
- 335 Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.
- 336 The use of UN1H1 drums, UN3H1 jerricans, and UN6HA1 composite packagings which meet the requirements of part 178 of the HMR at the Packing Group I or II performance level. These packagings are not required to: (1.) meet the venting requirements in §173.24(g) or (2.) be marked with the hydrostatic pressure test marking specified in §173.24a(b)(4). Shipment of packages under this special provision must be made by private or contract motor carrier. Transportation of these packages also requires the door of each van trailer to be marked with "Warning trailer may contain chemical vapor. Do not enter until vapors have dissipated." The driver of the transport vehicle and the consignee(s) must be trained not to enter the transport vehicle until the ammonia vapors have dissipated, and the emergency response information on the shipping paper must indicate that the vehicle contains ammonia vapors. This training must be documented in training records required by §172.704(d). Transport vehicles must be vented to prevent accumulation of vapors at a poisonous or flammable concentration.
- 337 Authorizes the use of regulated waste containers manufactured prior to October 1, 2006 to be marked with the alternative shipping name of Regulated medical waste, UN3291 and arrows that deviate as prescribed in §172.312(a)(2) in that they may be black or white.
- 338 Life Saving appliances, self-inflating transported by motor vehicle only between an U.S. Coast Guard approved inflatable life raft servicing facility and a vessel are only subject to the following requirements:
- a. Prior to repacking into the life-saving appliance, an installed inflation cylinder must successfully meet and pass all inspection and test criteria and standards of the raft manufacturer and the vessel Flag State requirements for cylinders installed as part of life-saving appliances, self-inflating (UN2990) used on marine vessels. Additionally, each cylinder must