(e) For a package containing 0.1 kg or more of UF₆, the proper shipping name and UN number "Radioactive material, uranium hexafluoride, UN 2978" must be used for the transportation of non-fissile or fissile-excepted uranium hexafluoride and the proper shipping name and UN number "Radioactive material, uranium hexafluoride, fissile, UN 2977" must be used for the transport of fissile uranium hexafluoride.[§173.420(e)]

[69 FR 3675, Jan. 26, 2004; 69 FR 55118, Sept. 13, 2004, as amended at 79 FR 40612, July 11, 2014; 80 FR 1162, Jan. 8, 2015; 80 FR 72928, Nov. 23, 2015]

§173.421 of Class 7 (radioactive) materials

A Class 7 (radioactive) material with an activity per package which does not exceed the limited quantity package limits specified in Table 4 in §173.425, and its packaging, are excepted from requirements in this subchapter for specification packaging, marking (except for the UN identification number marking requirement described in §173.422(a)), labeling, and if not a hazardous substance or hazardous waste, shipping papers, and the requirements of this subpart if:[§173.421]

- (a) Each package meets the general design requirements §173.410;[§173.421(a)]
- (b) The radiation level at any point on the external surface of the package does not exceed 0.005 mSv/h (0.5 mrem/h);[§173.421(b)]
- (c) Me The non-fixed contamination on the external surface of the package does not exceed the limits specified in §173.443(a);
- (d) The outside of the inner packaging or, if there is no inner packaging, the outside of the packaging itself bears the marking "Radioactive;"[§173.421(d)]
- (e) The package does not contain fissile material unless excepted by §173.453; and[§173.421(e)]
- (f) The material is otherwise prepared for shipment as specified in accordance with §173.422.[§173.421(f)]

[79 FR 40613, July 11, 2014]

§173.422 Madditional requirements for excepted packages containing Class 7 (radioactive) materials

☑ An excepted package of Class 7 (radioactive) material that is prepared for shipment under the provisions of §173.421, §173.424, §173.426, or §173.428, or a small quantity of another hazard class transported by highway or rail (as defined in §173.4) which also meets the requirements of one of these sections, is not subject to any additional requirements of this subchapter, except for the following:[§173.422]

- (a) The outside of each package must be marked with:[§173.422(a)]
 - (1) The UN identification number for the material preceded by the letters UN, as shown in column (4) of the Hazardous Materials Table in §172.101 of this subchapter; and[§173.422(a)(1)]
 - (2) The letters "RQ" on a non-bulk packaging containing a hazardous substance.[§173.422(a)(2)]
- (b) Sections 171.15 and 171.16 of this subchapter, pertaining to the reporting of incidents;[§173.422(b)]
- Sections 174.750, 175.705, and 176.710 of this subchapter (depending on the mode of transportation), pertaining to the reporting of decontamination;[§173.422(c)]
- (d) The training requirements of subpart H of part 172 of this subchapter; and[§173.422(d)]
- (e) For a material that meets the definition of a hazardous substance or a hazardous waste, the shipping paper requirements of subpart C of part 172 of this subchapter, except that such shipments are not subject to shipping paper requirements applicable 10 Class 7 (radioactive) materials in §§172.202(a)(5), 172.202(a)(6), 172.203(d) and 172.204(c)(4).[§173.422(e)]

89 FR 3875, Jan. 26, 2004, as amended at 79 FR 40613, July 11, 2014; 80 FR 72928, Nov. 23, 2015]

§173.423 □ Requirements for multiple hazard limited quantity Class 7 (radioactive) materials

- (a) Except as provided in §173.4, when a limited quantity radioactive material tive material meets the definition of another hazard class or division, it must be — [§173.423(a)]
 - (1) Classed for the additional hazard;[§173.423(a)(1)]
 - (2) Packaged to conform with the requirements specified §173.421(a) through (e) or §173.424(a) through (g), as appropriate; and[§173.423(a)(2)]
 - (3) Offered for transportation in accordance with the requirements applicable to the hazard for which it is classed. [§173.423(a)(3)]

(b) A limited quantity Class 7 (radioactive) material which is classed other than Class 7 in accordance with this subchapter is excepted from the requirements of §§173.422(a), 172.203(d), and 172.204(c)(4) of this subchapter if the entry "Limited quantity radioactive material" appears on the shipping paper in association with the basic description.[§173.423(b)]

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended at 80 FR 72928, Nov. 23, 2015]

§173.424 Excepted packages for radioactive instruments and articles

MA radioactive instrument or article and its packaging are excepted from requirements in this subchapter for specification packaging, labeling, marking (except for the UN identification number marking requirement described in §173.422(a)), and if not a hazardous substance or hazardous waste, shipping papers and the requirements of this subpart if:[§173.424]

- (a) Each package meets the general design requirements §173.410;[§173.424(a)]
- (b) The activity of the instrument or article does not exceed the relevant limit listed in Table 4 in §173.425;[§173.424(b)]
- (c) The total activity per package does not exceed the relevant limit listed in Table 4 in §173.425;[§173.424(c)]
- (d) The radiation level at 10 cm (4 in) from any point on the external surface of any unpackaged instrument or article does not exceed 0.1 mSv/hour (10 mrem/hour);[§173.424(d)]
- (e) The active material is completely enclosed by non-active components (a device performing the sole function of containing radioactive material shall not be considered to be an instrument or manufactured article);[§173.424(e)]
- (f) The radiation level at any point on the external surface of a package bearing the article or instrument does not exceed 0.005 mSv/hour (0.5 mrem/hour), or, for exclusive use domestic shipments, 0.02 mSv/hour (2 mrem/hour);[§173.424(f)]
- (g) The nonfixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in §173.443(a);[§173.424(g)]
- (h) Except as provided in §173.426, the package does not contain more than 15 g of uranium-235; and[§173.424(h)]
- The package is otherwise prepared for shipment as specified in §173.422.[§173.424(i)]

[69 FR 3675, Jan. 26, 2004]

§173.425 excepted quantities and articles

Main The limits applicable to instruments, articles, and limited quantities subject to exceptions under §§173.421 and 173.424 are set forth in table 4 as follows:[§173,425]

Table 4 — Activity Limits for Limited Quantities, Instruments, and Articles

Nature of contents	Instruments and articles		1112
	Limits for each instrument or article ¹	Package limits ¹	Limited quantity package limits ¹
Solids:			
Special form	10 ⁻² A ₁	alot A ros tra	10 ⁻³ A ₁
Normal form	10 ⁻² A ₂	A ₂	10 ⁻³ A ₂
Liquids:	(Andresonia e	ževi symbonih	2.460.00
Tritiated water:			
<0.0037 TBq/L (0.1 Ci/L)	es notational	avi svikao libiji	37 TBq (1,000 Ci)
0.0037 TBq to 0.037 TBq/L (0.1 Ci to 1.0 Ci/L)		2 2 2	3.7 TBq (100 Ci)
>0.037 TBq/L (1.0 Ci/L)	NULTER NUMBER	Policinal of the second	0.037 TBq (1.0 Ci)
Other Liquids	10 ⁻³ A ₂	10 ⁻¹ A ₂	10 ⁻⁴ A ₂
Gases:	76.00 301	DARKEN I	rates in
Tritium ²	2 × 10 ⁻² A ₂	2 × 10 ⁻¹ A ₂	2 × 10 ⁻² A ₂
Special form	10 ⁻³ A ₁	10 ⁻² A ₁	10 ⁻³ A ₁
Normal form	10 ⁻³ A ₂	10 ⁻² A ₂	10 ⁻³ A ₂

For mixtures of radionuclides see §173.433(d).

These values also apply to tritium in activated luminous paint and tritium adsorbed on solid carriers.

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended by Amdt. 173-244, 61 FR 20751, May 8, 1996; 63 FR 52849, Oct. 1, 1998; 65 FR 58630, Sept. 29, 2000; 66 FR 45383, Aug. 28, 2001; 69 FR 3676, Jan. 26, 2004]