

§ 173.425

§ 173.425 Table of activity limits—excepted quantities and articles.

to exceptions under §§ 173.421 and 173.424 are set forth in table 7 as follows:

The limits applicable to instruments, articles, and limited quantities subject

TABLE 7—ACTIVITY LIMITS FOR LIMITED QUANTITIES, INSTRUMENTS, AND ARTICLES

Nature of contents	Instruments and articles		Limited quantity package limits ¹
	Limits for each instrument or article ¹	Package limits ¹	
Solids:			
Special form	10 ⁻² A ₁	A ₁	10 ⁻³ A ₁
Normal form	10 ⁻² A ₂	A ₂	10 ⁻³ A ₂
Liquids:			
Tritiated water:			
<0.0037 TBq/L (0.1 Ci/L)			37 TBq (1,000 Ci)
0.0037 TBq to 0.037 TBq/L (0.1 Ci to 1.0 Ci/L)			3.7 TBq (100 Ci)
>0.037 TBq/L (1.0 Ci/L)			0.037 TBq (1.0 Ci)
Other Liquids	10 ⁻³ A ₂	10 ⁻¹ A ₂	10 ⁻⁴ A ₂
Gases:			
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

¹ For mixtures of radionuclides see § 173.433(d).

² 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]

§ 173.426 Excepted packages for articles containing natural uranium or thorium.

A manufactured article in which the sole Class 7 (radioactive) material content is natural or unirradiated depleted uranium or natural thorium and its packaging is excepted from the specification packaging, shipping paper and certification, marking, and labeling requirements of this subchapter and requirements of this subpart if:

- (a) Each package meets the general design requirements of § 173.410;
- (b) The outer surface of the uranium or thorium is enclosed in an inactive sheath made of metal or other durable protective material;
- (c) The conditions specified in § 173.421(a) (2), (3) and (4) are met; and
- (d) The article is otherwise prepared for shipment as specified in § 173.422.

[Amdt. 173–244, 60 FR 50307, Sept. 28, 1995, as amended by Amdt. 173–244, 61 FR 20752, May 8, 1996]

§ 173.427 Transport requirements for low specific activity (LSA) Class 7 (radioactive) materials and surface contaminated objects (SCO).

(a) In addition to other applicable requirements specified in this subchapter, low specific activity (LSA) materials and surface contaminated objects (SCO), unless excepted by paragraph (d) of this section, must be packaged in accordance with paragraph (b) or (c) of this section and must be transported in accordance with the following conditions:

- (1) The external dose rate must not exceed an external radiation level of 10 mSv/h (1 rem/h) at 3 m from the unshielded material;
- (2) The quantity of LSA and SCO material in any single conveyance must not exceed the limits specified in table 9;
- (3) LSA material and SCO that are or contain fissile material must meet the applicable requirements of §§ 173.453, 173.457, 173.459 and 173.467;
- (4) Packages must meet the contamination control limits specified in § 173.443;
- (5) External radiation levels must comply with § 173.441; and
- (6) For LSA material and SCO required by this section to be consigned as exclusive use: