

Schedule V

[Regulations 5, 16, 30, 31 and 32]

Exempt quantities of radioactive substances

Item	Radioactive substance	Maximum quantity (megabecquerels)
1	Americium 241	0.0004
2	Antimony 122	4.0
3	Antimony 124	0.4
4	Antimony 125	0.4
5	Arsenic 73	4.0
6	Arsenic 74	0.4
7	Arsenic 76	0.4
8	Arsenic 77	4.0
9	Barium 131	0.4
10	Barium 133	0.4
11	Barium 140	0.4
12	Bismuth 210	0.04
13	Bromine 82	0.4
14	Cadmium 109	0.4
15	Cadmium 115m	0.4
16	Cadmium 115	4.0
17	Caesium 131	40.0
18	Caesium 134m	4.0
19	Caesium 134	0.04
20	Caesium 135	0.4
21	Caesium 136	0.4
22	Caesium 137	0.4
23	Calcium 45	0.4
24	Calcium 47	0.4
25	Carbon 14	4.0
26	Cerium 141	4.0
27	Cerium 143	4.0
28	Cerium 144	0.04
29	Chlorine 36	0.4
30	Chlorine 38	0.4
31	Chromium 51	40.0
32	Cobalt 58m	0.4
33	Cobalt 58	0.4
34	Cobalt 60	0.04
35	Copper 64	4.0
36	Dysprosium 165	0.4
37	Dysprosium 166	4.0
38	Erbium 169	4.0
39	Erbium 171	4.0
40	Europium 152(9.2h)	4.0
41	Europium 152(13 yr.)	0.04
42	Europium 154	0.04
43	Europium 155	0.4
44	Fluorine 18	40.0
45	Gadolinium 153	0.4
46	Gadolinium 159	4.0
47	Gallium 72	0.4
48	Germanium 71	4.0
49	Gold 198	4.0
50	Gold 199	4.0
51	Hafnium 181	0.4
52	Holmium 166	4.0
53	Hydrogen 3	40.0

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54	Indium 113m	4.0
55	Indium 114m	0.4
56	Indium 115m	4.0
57	Indium 115	0.4
58	Iodine 125	0.04
59	Iodine 126	0.04
60	Iodine 129	0.004
61	Iodine 131	0.04
62	Iodine 132	0.4
63	Iodine 133	0.04
64	Iodine 134	0.4
65	Iodine 135	0.4
66	Iridium 192	0.4
67	Iridium 194	4.0
68	Iron 55	4.0
69	Iron 59	0.4
70	Krypton 85	4.0
71	Krypton 87	0.4
72	Lanthanum 140	0.4
73	Lutetium 177	4.0
74	Manganese 52	0.4
75	Manganese 54	0.4
76	Manganese 56	0.4
77	Mercury 197m	4.0
78	Mercury 197	4.0
79	Mercury 203	0.4
80	Molybdenum 99	4.0
81	Neodymium 147	4.0
82	Neodymium 149	4.0
83	Nickel 59	4.0
84	Nickel 63	0.4
85	Nickel 65	4.0
86	Niobium 93m	0.4
87	Niobium 95	0.4
88	Niobium 97	0.4
89	Osmium 185	0.4
90	Osmium 191m	4.0
91	Osmium 191	4.0
92	Osmium 193	4.0
93	Palladium 103	4.0
94	Palladium 109	4.0
95	Phosphorus 32	0.4
96	Platinum 191	4.0
97	Platinum 193m	4.0
98	Platinum 193	4.0
99	Platinum 197m	4.0
100	Platinum 197	4.0
101	Plutonium 239	0.0004
102	Polonium 210	0.004
103	Potassium 42	0.4
104	Praseodymium 142	4.0
105	Praseodymium 143	4.0
106	Promethium 147	0.4
107	Promethium 149	0.4
108	Radium 226	0.0004
109	Rhenium 186	4.0
110	Rhenium 188	4.0
111	Rhodium 103m	4.0
112	Rhodium 105	4.0
113	Rubidium 86	0.4
114	Rubidium 87	0.4

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115	Ruthenium 97	4.0
116	Ruthenium 103	0.4
117	Ruthenium 105	0.4
118	Ruthenium 106	0.04
119	Samarium 151	0.4
120	Samarium 153	4.0
121	Scandium 46	0.4
122	Scandium 47	4.0
123	Scandium 48	0.4
124	Selenium 75	0.4
125	Silicon 31	4.0
126	Silver 105	0.4
127	Silver 110m	0.04
128	Silver 111	4.0
129	Sodium 22	0.4
130	Sodium 24	0.4
131	Strontium 85	0.4
132	Strontium 89	0.04
133	Strontium 90	0.004
134	Strontium 91	0.4
135	Strontium 92	0.4
136	Sulphur 35	4.0
137	Tantalum 182	0.4
138	Technetium 96	0.4
139	Technetium 97m	4.0
140	Technetium 97	4.0
141	Technetium 99m	4.0
142	Technetium 99	0.4
143	Tellurium 125m	0.4
144	Tellurium 127m	0.4
145	Tellurium 127	4.0
146	Tellurium 129m	0.4
147	Tellurium 129	4.0
148	Tellurium 131m	0.4
149	Tellurium 132	0.4
150	Terbium 160	0.4
151	Thallium 200	4.0
152	Thallium 201	4.0
153	Thallium 202	4.0
154	Thallium 204	0.4
155	Thorium (natural) ¹	4.0
156	Thulium 170	0.4
157	Thulium 171	0.4
158	Tin 113	0.4
159	Tin 125	0.4
160	Tungsten 181	0.4
161	Tungsten 185	0.4
162	Tungsten 187	4.0
163	Uranium (natural) ²	4.0
164	Uranium 233	0.0004
165	Uranium 235	0.0004
166	Vanadium 48	0.4
167	Xenon 131m	40.0
168	Xenon 133	4.0
169	Xenon 135	4.0
170	Ytterbium 175	4.0
171	Yttrium 90	0.4
172	Yttrium 91	0.4
173	Yttrium 92	4.0
174	Yttrium 93	4.0
175	Zinc 65	0.4

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Item	Radioactive substance	Maximum quantity (megabecquerels)
176	Zinc 69m	4.0
177	Zinc 69	40.0
178	Zirconium 93	0.4
179	Zirconium 95	0.4
180	Zirconium 97	0.4
	Any alpha emitting radionuclide not listed above or mixtures of alpha emitters of unknown composition	0.0004
	Any radionuclide other than alpha emitting radionuclides, not listed above or mixtures of beta emitters of unknown composition	0.004

(See notes at end of this Schedule and Appendix thereto)

¹ Based on alpha disintegration rate of Th-232, Th-230 and their daughter products.

² Based on alpha disintegration rate of U-238, U-234, and U-235.

NOTE: For purposes of regulations 5(1)(b) and 32(3), where there is involved a combination of isotopes in known amounts, the limit for the combination should be derived as follows: Determine, for each isotope in the combination, the ratio between the quantity present in the combination and the limit otherwise established for the specific isotope when not in combination. The sum of such ratios for all the isotopes in the combination may not exceed "1" (i.e. "unity"). *Example:* for purposes of regulation 5(1)(b), if a particular combination contains 1 megabecquerel of Au-198 and 2 megabecquerels of C-14, it may also include not more than 0.01 megabecquerel of I-131. This limit was determined as follows:

$$\frac{1 \text{ megabecquerel Au-198}}{4 \text{ megabecquerels}} + \frac{2 \text{ megabecquerels C-14}}{4 \text{ megabecquerels}} + \frac{0.01 \text{ megabecquerel I-131}}{0.04 \text{ megabecquerel}} = 0.25 + 0.5 + 0.25 = 1$$

[Schedule V amended in Gazette 22 July 1997 p.3824.]