



Classes of Nuclear Substances

Nuclear substances are divided into three classes (A, B or C) based on their radiological characteristics. The following table provides the classification of the most **common** nuclear substances and their associated contamination limits.

To find out the classification, for regulatory purposes, of any nuclear substance that is not listed below, contact your CNSC Licence Contact.

Class A: 3 Bq/cm² controlled, 0.3 Bq/cm² public

Ag-110m	Am-241	Bi-210	Co-56	Co-60	Cs-134	Cs-137
I-124	Lu-177m	Mn-52	Na-22	Pb-210	Sb-124	Sc-46
V-48	Zn-65					
All alpha emitters (unless otherwise specified below) and their daughter isotopes						

Class B: 30 Bq/cm² controlled, 3 Bq/cm² public

As-74	Au-198	Ba-133	Br-82	Ca-47	Ce-139	Ce-143
Co-58	Cu-67	Fe-59	Ga-72	Gd-153	Hg-194	Hg-203
Ir-192	I-131	La-140	Mn-54	Mo-99	Nb-95	Pa-233
Po-210	Ra-223	Rb-84	Rb-86	Re-186	Re-188	Ru-103
Ru-106	Sb-122	Se-75	Sm-153	Sr-85	Sr-90	Xe-127
Y-86	Y-90	Yb-169	Zr-95	W-188	Zr-89	

Class C: 300 Bq/cm² controlled, 30 Bq/cm² public

Ar-41	Au-195m	C-11	C-14	Ca-45	Cd-109	Ce-141
Ce-144	Cl-36	Co-57	Cr-51	Cu-60	Cu-61	Cu-64
Er-169	F-18	Fe-55	Ga-67	Ga-68	Ge-68	H-3
I-123	I-125	In-111	In-113m	In-114	In-114m	K-42
Kr-79	Kr-81m	Kr-85	Lu-177	Mn-52m	Mn-56	N-13
Na-24	Nb-98	Ni-63	O-15	P-32	P-33	Pd-103
Pm-147	Pr-144	Pu-241	Rh-106	S-35	Sc-44	Sn-113
Sn-123	Sr-89	Tc-99	Tc-99m	Te-127	Tl-201	Tl-204
V-49	W-181	Xe-133	Zn-63			

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