



Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	5.27 Years
Origin [1]	Neutron activation
Principal decay mode [1]	β^-
Specific activity [1]	4.18×10^{13} Bq/g
Freshwater Kd [2]	4.4×10^4 L kg ⁻¹
Marine Kd [3]	5×10^7 L kg ⁻¹

Parameters useful for human assessments	Value
CR Pasture grass [2]	4.5×10^{-2}
CR Freshwater fish [2]	4.0×10^2 L kg ⁻¹
CR Marine fish [3]	7×10^2 L kg ⁻¹
F _f Cow meat [2]	4.3×10^{-4} d kg ⁻¹
F _m Cow milk [2]	1.1×10^{-4} d kg ⁻¹
Human fractional absorption (f ₁) [4]	0.1
Inhalation dose coefficient [5]	3.1×10^{-8} Sv Bq ⁻¹
Ingestion dose coefficient [5]	3.4×10^{-9} Sv Bq ⁻¹
Biological half life for Human (adult) [6]	a: 60 days (0.05), b: 800 days (0.45)
Biological half life for Cow milk	No data available
EU Food intervention limit- Dairy [7]	1000 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Baby food [7]	400 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Liquid [7]	1000 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Other food [7]	1250 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Minor food [7]	12500 Bq L ⁻¹ or Bq kg ⁻¹

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Parameters useful for wildlife assessments	Value
Terrestrial EMCL — Soil [8]	$7.3 \times 10^5 \text{ Bq kg}^{-1}$
Freshwater EMCL — Water [8]	$1.68 \times 10^{-2} \text{ Bq L}^{-1}$
Freshwater EMCL — Sediment [8]	$7.04 \times 10^3 \text{ Bq kg}^{-1}$
Marine EMCL — Water [8]	$2.3 \times 10^{-3} \text{ Bq L}^{-1}$
Marine EMCL — Sediment [8]	$6.99 \times 10^3 \text{ Bq kg}^{-1}$
CR Terrestrial mammal (rat) [8]	1.22×10^{-5}
CR Freshwater fish [8]	2.3×10^2
CR Freshwater mollusc [8]	1.1×10^3
CR Marine fish [8]	5.3×10^3
CR Marine mollusc [8]	5.3×10^3
Internal DCC Terrestrial mammal (rat) on soil [8]	$1.7 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Terrestrial mammal (rat) in soil [8]	$1.20 \times 10^{-3} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
External DCC Terrestrial mammal (rat) on soil [9]	$4.80 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
Internal DCC Marine fish (benthic) [8]	$1.70 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Marine fish (benthic) in water [8]	$1.30 \times 10^{-3} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Marine fish (benthic) at sediment interface [8]	$6.5 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
Internal DCC Freshwater fish (pelagic) [8]	$2.1 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Freshwater fish in water [8]	$1.3 \times 10^{-3} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water

All terms used in these tables are described and discussed in underlying documents accessed via the hyperlinks provided

Sources of data [reference list](#)

Data compiled: September 2012

Data updated : May 2015

www.radioecology-exchange.org