

Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	2.06 Years
Origin [1]	Activation [fission]
Principal decay mode [1]	Beta [gamma]
Specific activity [2]	$4.81 \times 10^{13} \text{ Bq g}^{-1}$
Freshwater Kd [3]	$2.9 \times 10^4 \text{ L kg}^{-1}$
Marine Kd [4]	$2.0 \times 10^3 \text{ L kg}^{-1}$

Parameters useful for human assessments	Value
CR Pasture grass [3]	$6.3 \times 10^{-2} \text{ L kg}^{-1}$
CR Freshwater fish [3]	$3.0 \times 10^3 \text{ L kg}^{-1}$
CR Marine fish [4]	$1.0 \times 10^2 \text{ L kg}^{-1}$
F _f Cow meat [3]	$2.2 \times 10^{-2} \text{ d kg}^{-1}$
F _m Cow milk [3]	$4.6 \times 10^{-3} \text{ d L}^{-1}$
Human fractional absorption (f ₁) [5]	1
Inhalation dose coefficient [6]	$2.0 \times 10^{-8} \text{ Sv Bq}^{-1}$
Ingestion dose coefficient [6]	$1.9 \times 10^{-8} \text{ Sv Bq}^{-1}$
Biological half life for Human (adult) [7]	a: 2 (0.1) days , b: 110 (0.9) days
Biological half life for Cow milk [8]	a: 0.9 days, b: 8.7 days
EU Food intervention limit- Dairy [9]	1000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Baby food [9]	400 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Liquid [9]	1000 Bq L^{-1}
EU Food intervention limit- Other food [9]	1250 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Minor food [9]	12500 Bq L^{-1} or Bq kg^{-1}

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Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil [10]	$1.67 \times 10^3 \text{ Bq kg}^{-1}$
Freshwater EMCL—Water [10]	$2.06 \times 10^{-2} \text{ Bq L}^{-1}$
Freshwater EMCL— Sediment [10]	$5.99 \times 10^3 \text{ Bq kg}^{-1}$
Marine EMCL — Water [10]	$9.52 \times 10^1 \text{ Bq L}^{-1}$
Marine EMCL — Sediment [10]	$8.26 \times 10^3 \text{ Bq kg}^{-1}$
CR Freshwater fish [10]	$3.4 \times 10^3 \text{ L kg}^{-1}$
CR Freshwater mollusc [10]	$1.3 \times 10^2 \text{ L kg}^{-1}$
CR Marine fish [10]	$8.4 \times 10^1 \text{ L kg}^{-1}$
CR Marine mollusc [10]	$5.0 \times 10^1 \text{ L kg}^{-1}$
Internal DCC Terrestrial mammal (rat) on soil [10]	$1.7 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Terrestrial mammal (rat) in soil [10]	$7.8 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
External DCC Terrestrial mammal (rat) on soil [10]	$3.1 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
Internal DCC Marine fish (benthic) [10]	$1.7 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Marine fish (benthic) in water [10]	$8.2 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Marine fish (benthic) at sediment interface [10]	$4.1 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ sediment
Internal DCC Freshwater fish (pelagic) [10]	$2.1 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Freshwater fish in water [10]	$7.9 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water

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

Sources of data: [Reference list](#)
 Data compiled: December 2013
 Data updated: