

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

Mercury

CASRN: 7439976

Parameter 1: INORGANIC

Parameter 3: Metals

Water Quality for the Protection of Aquatic Life

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

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Factsheet](#)

Freshwater

Concentration (µg/L)	0.026
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May not prevent the accumulation of methylmercury in aquatic life, therefore, may not protect wildlife that consume aquatic life. Also, may not fully protect higher trophic level fish. Consult the factsheet for details. Consult equally the methylmercury guideline in the Canadian Tissue Residue Guidelines for the Protection of Wildlife Consumers of Aquatic Biota

Date	2003
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Marine

Concentration (µg/L)	0.016
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Interim guideline. May not protect fully high trophic level fish.

Date	2003
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Water Quality for the Protection of Agriculture

Irrigation

Concentration (µg/L)	No data
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Date	No data
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Livestock

Concentration (µg/L)	3
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No fact sheet created. For more information on this guideline, please refer to Canadian Water Quality Guidelines (CCREM 1987).

Date	1987
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Sediment Quality for the Protection of Aquatic Life

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

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Freshwater

Concentration ($\mu\text{g}/\text{kg}$ dry weight) - ISQG 170

Guideline	% \leq ISQG	ISQG < % < PEL	ISQG % \geq PEL
Mercury	8	34	36

Concentration ($\mu\text{g}/\text{kg}$ dry weight) - PEL 486

Guideline	% \leq ISQG	ISQG < % < PEL	ISQG % \geq PEL
Mercury	8	34	36

Date 1997

Marine

Concentration ($\mu\text{g}/\text{kg}$ dry weight) - ISQG 130

Guideline	% \leq ISQG	ISQG < % < PEL	ISQG % \geq PEL
Mercury	8	24	37

Concentration ($\mu\text{g}/\text{kg}$ dry weight) - PEL 700

Guideline	% \leq ISQG	ISQG < % < PEL	ISQG % \geq
Mercury	8	24	37

Date 1997

Soil Quality for the Protection of Environmental and Human Health

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

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Concentration (mg/kg dry weight) - Agricultural 6.6

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG_{HH}) and a Soil Quality Guideline for Environmental Health (SQG_{E}). Therefore the soil quality guideline is the lower of the two and represents a fully integrated de novo guideline for this land use, derived in accordance with the soil protocol (CCME 1996;2006). The corresponding interim soil quality criterion (CCME 1991) is superseded by the soil quality guideline. For guidelines derived prior to 2004, differentiation between soil texture (coarse/fine) is not applicable.

Concentration (mg/kg dry weight) - Residential / parkland 6.6

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG_{HH}) and a Soil Quality Guideline for Environmental Health (SQG_{E}). Therefore the soil quality guideline is the lower of the two and represents a fully integrated de novo guideline for this land use, derived in accordance with the soil protocol (CCME 1996;2006). The corresponding interim soil quality criterion (CCME 1991) is superseded by the soil quality guideline. For guidelines derived prior to 2004, differentiation between soil texture (coarse/fine) is not applicable.

Concentration (mg/kg dry weight) - Commercial 24

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG_{HH}) and a Soil Quality Guideline for Environmental Health (SQG_{E}). Therefore the soil quality guideline is the lower of the two and represents a fully integrated de novo guideline for

this land use, derived in accordance with the soil protocol (CCME 1996;2006). The corresponding interim soil quality criterion (CCME 1991) is superseded by the soil quality guideline. For guidelines derived prior to 2004, differentiation between soil texture (coarse/fine) is not applicable.

Concentration (mg/kg dry weight) - Industrial 50

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG_{HH}) and a Soil Quality Guideline for Environmental Health (SQG_E). Therefore the soil quality guideline is the lower of the two and represents a fully integrated de novo guideline for this land use, derived in accordance with the soil protocol (CCME 1996;2006). The corresponding interim soil quality criterion (CCME 1991) is superseded by the soil quality guideline. For guidelines derived prior to 2004, differentiation between soil texture (coarse/fine) is not applicable.

Date 1999

Tissue Residue Quality for the Protection of Wildlife Consumer of Aquatic Biota

Concentration (µg/kg diet wet weight) see Methylmercury

Date *No data*