

COBALT, ANTIMONY COMPOUNDS, AND WEAPONS-GRADE TUNGSTEN ALLOY

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Table S1.16 Environmental regulations and guidelines for cobalt

Regulatory/guideline value	Country/ location	Value and units	Reference
<i>Industrial emissions</i>			
Waste gases from waste incineration plants	EU	0.5 mg/Nm ^{3a}	European Commission (2010)
Waste gases from cement kilns co-incinerating waste	EU	0.5 mg/Nm ^{3a}	European Commission (2010)
Waste gases from combustion plants co-incinerating waste	EU	0.5 mg/Nm ^{3a}	European Commission (2010)
<i>Air</i>			
Residential air	USA	0.00031 µg/m ³	NTP (2021)
<i>Water</i>			
Tap water	USA	6 µg/L	NTP (2021)
WHO freshwater quality guideline value	World	0.008 mg/L	WHO (2006)
Ontario guidelines for water quality: interim PWQO for the protection of aquatic life	Ontario, Canada	0.9 µg/L	Ontario Ministry of Environment and Energy (1996)
ANZG guideline for freshwater quality values	Australia and New Zealand	2.8 µg/L	Water Quality Australia (2018)
Polish threshold values for groundwater	Poland	0.2 mg/L	European Commission (2009a)
<i>Soil</i>			
Soil screening values	UK	4.2 mg/kg	Environment Agency, 2022
Regional Screening Levels for residential soil	USA	23 mg/kg	NTP (2021)
Regional Screening Levels for industrial soil	USA	350 mg/kg	NTP (2021)
Soil standards for agricultural, low- and high-density residential, and urban park sites	Canada	25 µg/g	Government of British Columbia (2019)
Soil standards for commercial sites	Canada	75 µg/g	Government of British Columbia (2019)
Soil standards for industrial sites	Canada	2000 µg/g	Government of British Columbia (2019)
<i>Consumer products</i>			
Guideline for household (and other consumer) products	World	1 µg/g	Basketter et al. (2003)
Threshold value for toys in the form of dry, brittle, powder-like, or pliable toy material	EU	10.5 mg/kg	European Commission (2009b)
Threshold value for toys in liquid or sticky toy material	EU	2.6 mg/kg	European Commission (2009b)
Threshold value for toys in scraped-off toy material	EU	130 mg/kg	European Commission (2009b)
Guidance value for exposure from ceramic articles	Norway	0.023 mg/kg bw per day	Norwegian Scientific Committee for Food and Environment (2007)

Table S1.16 (continued)

Regulatory/guideline value	Country/ location	Value and units	Reference
<i>Food and feed</i>			
Limit for cobalt supplementation in feed for ruminants (except milk replacer), horses and rabbits	EU	0.3 mg/kg complete feed	EFSA (2009)
United Kingdom Expert Group on Vitamins and Minerals guideline for daily oral intake	United Kingdom	0.023 mg/kg bw per day	FSA (2003)

ANZG, Australia and New Zealand Guidelines; bw, body weight; EU, European Union; PWQO, Provincial Water Quality Objectives; WHO, World Health Organization.

^a Nm³, normal cubic metre, at a temperature of 15 °C and atmospheric pressure of 101 325 Pa.

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