National Report Pursuant to Article 21: Submission #5

Switzerland

ormation on the	party
Informatio	on the party
Name of party	
Switzerland	
Date on which	s instrument of ratification, accession, approval or acceptance was deposited
25 May 2010	
Date of entry ir	o force of the Convention for the party
16 August 2	on the national focal point
Informatio	on the national focal point
Informatio	on the national focal point
Information Full name of the	on the national focal point institution for the Environment FOEN
Information Full name of the	on the national focal point institution for the Environment FOEN
Information Full name of the Federal Office Title of National Dr.	on the national focal point institution for the Environment FOEN Focal Point
Information Full name of the Federal Office Title of National Dr.	on the national focal point institution for the Environment FOEN Focal Point
Information Full name of the Federal Office Title of National Dr. Name of National	on the national focal point institution for the Environment FOEN Focal Point al Focal Point

+41 58 464 46 18	
ax number	
{Empty}	
-mail	
<u>Josef.Tremp@bafu.admin.ch</u>	
econd E-mail	
Minamata@bafu.admin.ch	
/eb page	
{Empty}	
ocal Point is submitting the national report	
 Information is submitted by the national focal point 	Information is submitted through the national focal point by the contact officer
3: Mercury supply sources and trade Does the party have any primary	y mercury mines that were operating within its territor
he date of entry into force of the	
○ Yes ◎ No	
dditional information on this question if need	led
{Empty}	

The party answered Yes to Question 3 above: Please attach the results of your endeavor or incevious reporting round. {Empty} Please attach the results of your endeavor or incevious reporting round. mpty}	licate where it is available on the internet, unless unchanged from a
(Empty) Please attach the results of your endeavor or incevious reporting round.	licate where it is available on the internet, unless unchanged from a
Please attach the results of your endeavor or inc evious reporting round.	
evious reporting round.	
ocks and sources. Stocks of mercury or mercury compounds loca	nation, for example on the use or disposal of mercury from such ted within the territory of Switzerland could exceed temporarily 50 sulphide originate exclusively from the treatment of mercury
environmentally sound manner and is either re exported for environmentally sound disposal a Minamata Convention and the Basel Convention FOEN. Authorisations are granted only if the m chloralkali facilities and if the importing country a use allowed under the Minamata Convention Swiss legislation an authorisation for the exponuses: (i) analysis and research purposes;	nat all mercury and mercury sulphide is managed in an used for a use allowed under the Minamata Convention or ecording the provisions of paragraph 3 of article 11 of the n. Each export of mercury for re-use must be authorised by the ercury is not excess mercury from the decommissioning of y has provided its written consent to the import of the mercury for and the national legislation of the importing country. Based on the of mercury shall only be granted on application for the following
(ii) manufacture of pre-dosed capsules for den	tai amaigam tillings.

O Yes

O No

Yes, ex	ports to parties
✓ Yes, ex	ports to non-parties
No	
	the party has submitted copies of the consent forms to the secretariat, then no further information is party has not previously provided such copies, it is recommended that it do so.
and the pa	arty has submitted copies of the consent forms to the secretariat, then no further information is needed.
	erland_consents-
	<u>e-import-of-</u> <u>ury-from-parties-</u>
and-r	
<u>partie</u>	s_2021.pdf
	et.
-	orts of mercury to non-Parties we received certification from the importing countries demonstrating quirements of paragraph 6 letter b of article 3 have been met.
that the re	orts of mercury to non-Parties we received certification from the importing countries demonstrating
upplement Exported (i) analysi	orts of mercury to non-Parties we received certification from the importing countries demonstrating quirements of paragraph 6 letter b of article 3 have been met.
that the re upplement Exported (i) analysi (ii) manuf	orts of mercury to non-Parties we received certification from the importing countries demonstrating quirements of paragraph 6 letter b of article 3 have been met. al: please provide information on the use of the exported mercury. mercury is exclusively used for: and research purposes (e.g. porosimetry); or
that the re upplement Exported (i) analysi (ii) manuf	ports of mercury to non-Parties we received certification from the importing countries demonstrating equirements of paragraph 6 letter b of article 3 have been met. al: please provide information on the use of the exported mercury. mercury is exclusively used for: a and research purposes (e.g. porosimetry); or acture of pre-dosed capsules for dental amalgam fillings.
upplement Exported (i) analysi (ii) manuf	norts of mercury to non-Parties we received certification from the importing countries demonstrating quirements of paragraph 6 letter b of article 3 have been met. al: please provide information on the use of the exported mercury. mercury is exclusively used for: and research purposes (e.g. porosimetry); or acture of pre-dosed capsules for dental amalgam fillings. all relevant information {Empty} were based on a general notification in accordance with article 3, paragraph 7, please indicate, if available,
ipplement Exported (i) analysi (ii) manuf If exports e total am mpty}	norts of mercury to non-Parties we received certification from the importing countries demonstrating quirements of paragraph 6 letter b of article 3 have been met. al: please provide information on the use of the exported mercury. mercury is exclusively used for: and research purposes (e.g. porosimetry); or acture of pre-dosed capsules for dental amalgam fillings. all relevant information {Empty} were based on a general notification in accordance with article 3, paragraph 7, please indicate, if available,

(Empty)		
4: Mercury-added products		
	e party taken any appropriate measures to not allow the manufacture, import	
ort of m	ercury-added products listed in Part I of Annex A of the Convention after the late specified for those products?	
O Yes	○ No ○ Yes (implementing paragraph 2 of article 4)	
es, pleas	e provide information on the measures.	
were mad for the im requireme In additio	Risk Reduction Ordinance (ORRChem, SR 814.81). The last amendments to the regulations on mercury e in 2015 and 2017. The most recent amendment in 2017 introduced restrictions and control measures port and export of mercury and mercury compounds. These adjustments were necessary to meet the ents of the Minamata Convention (see Mercury supply sources and trade). In to the rules on transboundary trade in mercury and mercury compounds, bans apply to the cure and placing on the market, including import, of mercury-added products which are listed in Part I of	
Annex A t	ore and placing on the market, including import, of mercury-added products which are listed in Part I of the Convention.	
Batteries: Batteries,		
Batteries: Batteries, contain m Switches Switches market if	o the Convention. including those installed in electrical and electronic appliances, may not be placed on the market if they ore than 5 mg of mercury (Annex 2.15 ORRChem). and relays: and relays, including those installed in electrical and electronic appliances, may not be placed on the they contain more than 0.1% of mercury within a homogeneous material (Annex 1.7 and Annex 2.18	
Batteries: Batteries, contain m Switches Switches market if ORRChen Discharge tubular), o	including those installed in electrical and electronic appliances, may not be placed on the market if they ore than 5 mg of mercury (Annex 2.15 ORRChem). and relays: and relays, including those installed in electrical and electronic appliances, may not be placed on the they contain more than 0.1% of mercury within a homogeneous material (Annex 1.7 and Annex 2.18	
Batteries: Batteries; Contain m Switches Switches market if ORRChen Discharge tubular), o amps, mo it is prohi mercury v	including those installed in electrical and electronic appliances, may not be placed on the market if they ore than 5 mg of mercury (Annex 2.15 ORRChem). and relays: and relays, including those installed in electrical and electronic appliances, may not be placed on the they contain more than 0.1% of mercury within a homogeneous material (Annex 1.7 and Annex 2.18 i). lamps: lamps are electrical and electronic equipment. Examples include fluorescent lamps (tubular and non-compact fluorescent lamps (with pin or screw base) and high-pressure discharge lamps (sodium-vapour	
Batteries: Batteries; contain m Switches Switches market if ORRChen Discharge tubular), o lamps, mo lt is prohi mercury o lamps (incomercury of	including those installed in electrical and electronic appliances, may not be placed on the market if they ore than 5 mg of mercury (Annex 2.15 ORRChem). and relays: and relays, including those installed in electrical and electronic appliances, may not be placed on the they contain more than 0.1% of mercury within a homogeneous material (Annex 1.7 and Annex 2.18 i). lamps: lamps are electrical and electronic equipment. Examples include fluorescent lamps (tubular and non-compact fluorescent lamps (with pin or screw base) and high-pressure discharge lamps (sodium-vapour ercury vapour lamps and metal-halide lamps). pited to place on the market electrical and electronic equipment that contains more than 0.1% of within a homogeneous material (Annex 2.18 ORRChem). The prohibition does not apply to discharge dividually or as part of other electrical and electronic equipment) which do not exceed the maximum	

intended for u	se by the general public is prohibited (Annex 1.7 ORRChem).
-	market of the following measurement instruments that contain mercury and are intended for commercial use, is prohibited (Annex 1.7 ORRChem):
- Barometers,	Commercial use, is promisted (Aimex 1.7 Officially.
- Manometers	
- Sphygmoma	nometers,
	s for use in plethysmographs,
	rs and other non-electrical thermometric applications,
HygrometersTensiometers	
- Pyknometers	
- Instruments	for the determination of the softening point.
manufacture o	rcury (CAS RN 7439-97-6), mercury compounds and preparations containing mercury for the f products mentioned above is prohibited (Annex 1.7 ORRChem). In addition the export of truments, switches and relays is prohibited unless their placing on the market is permitted.
Link to the OR	RChem:
https://www.fe	dlex.admin.ch/eli/cc/2005/478/en
O Yes () No
	No vide information on the measures.
yes, please pro According to t prohibited, if p obligation to ii (WPO, SR 814.	
yes, please pro According to t prohibited, if p obligation to ii (WPO, SR 814. separator with	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An estall amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%.
yes, please pro According to t prohibited, if p obligation to ii (WPO, SR 814. separator with	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An estall amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%.
yes, please pro According to t prohibited, if p obligation to ir (WPO, SR 814, separator with Link to the OR https://www.fe	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An install amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%. RChem: dlex.admin.ch/eli/cc/2005/478/en O:
yes, please pro According to t prohibited, if p obligation to ir (WPO, SR 814, separator with Link to the OR https://www.fe	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An istall amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%. RChem: dlex.admin.ch/eli/cc/2005/478/en
yes, please pro According to t prohibited, if p obligation to ii (WPO, SR 814. separator with Link to the OR https://www.fe Link to the WP https://www.fe	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An install amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%. RChem: dlex.admin.ch/eli/cc/2005/478/en O:
According to t prohibited, if pobligation to in (WPO, SR 814. separator with Link to the OR https://www.feLink to the WPhttps://www.fe	vide information on the measures. ne obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is riority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An istall amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%. RChem: dlex.admin.ch/eli/cc/2005/478/en 0: dlex.admin.ch/eli/cc/1998/2863_2863_2863/en
yes, please pro According to t prohibited, if p obligation to ii (WPO, SR 814. separator with Link to the OR https://www.fe Link to the WP https://www.fe Has the pa cury-addec cle 4?	wide information on the measures. The obligations of the Chemical Risk Reduction Ordinance (ORRChem) the use of dental amalgam is priority can be given to a different filling material for medical reasons (Annex 1.7 ORRChem). An istall amalgam separators in dental practices is stipulated in the Waters Protection Ordinance 201). Treatment units in which amalgam is processed, shall be equipped with an amalgam a removal efficiency of at least 95%. RChem: dlex.admin.ch/eli/cc/2005/478/en O: dlex.admin.ch/eli/cc/1998/2863_2863_2863/en arty taken measures to prevent the incorporation into assembled products I products whose manufacture, import and export are not allowed under

1111	t is prohibited to place electrical and electronic equipment on the market that contains more than 0.1% of rcury within a homogeneous material (Annex 2.18 ORRChem).
ve	t is prohibited to place on the market new vehicles (passenger cars and light commercial vehicles) and new nicle components which contain more than 0.1% of mercury per homogeneous material (Annex 2.16 Number 5 RChem).
ma	t is prohibited to place on the market phenylmercury compounds or other mercury compounds intended for the nufacture of polyurethanes or preparations or articles containing 0.1% or more of such compounds (Annex 1.7 RChem).
	k to the ORRChem: os://www.fedlex.admin.ch/eli/cc/2005/478/en
ercı	as the party discouraged the manufacture and the distribution in commerce of ry-added products not covered by any known use in accordance with article 4, aph 6?
	Yes O No
If yes	, please provide information on the measures.
	cording to the obligations of the Chemical Risk Reduction Ordinance (ORRChem) it is prohibited to place on the rket, including the import, preparations or articles containing mercury or mercury compounds for uses
	known before 1 January 2018. The use of mercury (CAS RN 7439-97-6), mercury compounds and preparations attaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem).
co Lir	ntaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem:
co Lir	ntaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem).
Lir htt	ntaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem:
co Lir htt	ntaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en
co Lir htt	htaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en - Additional comments on the article in free text if the party chooses to do so
co Lir htt	htaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en - Additional comments on the article in free text if the party chooses to do so
co Lir htt	htaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en - Additional comments on the article in free text if the party chooses to do so https://www.fedlex.admin.ch/eli/cc/2005/478/en
co Lir htt	htaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en - Additional comments on the article in free text if the party chooses to do so
co Lin htt	htaining mercury for the manufacture of such products mentioned is also prohibited (Annex 1.7 ORRChem). k to the ORRChem: ps://www.fedlex.admin.ch/eli/cc/2005/478/en - Additional comments on the article in free text if the party chooses to do so https://www.fedlex.admin.ch/eli/cc/2005/478/en

1) It is prohibited to place on the market electrical and electronic appliances which contain batteries with more

hlor-alka	li production
ilioi-aika	ii production
O Yes	No Not applicable (do not have these facilities)
yes, please	e provide information on these measures.
ORRChem auxiliary r	to the legal provisions (Annex 1.7 Number 3.1 Letter c of the Chemical Risk Reduction Ordinance, n) the use of mercury (CAS RN 7439-97-6), mercury compounds and mercury-containing preparations a materials in industrial manufacturing processes is prohibited. Therefore the use of mercury in chlorduction is prohibited. This regulation is in force since January 1, 2018.
cetaldehy	yde production in which mercury or mercury compounds are used as a catalyst
O Yes	○ No ○ Not applicable (do not have these facilities)
yes, please	e provide information on these measures.
ORRChem auxiliary r	to the legal provisions (Annex 1.7 Number 3.1 Letter c of the Chemical Risk Reduction Ordinance, the use of mercury (CAS RN 7439-97-6), mercury compounds and mercury-containing preparations and materials in industrial manufacturing processes is prohibited. Therefore the use of mercury or mercury as as catalyst in acetaldehyde production is prohibited. This regulation is in force since January 1, 2018
cesses l	easures in place to restrict the use of mercury or mercury compounds in the listed in Part II of Annex B in accordance with the provisions set out therein ide monomer production
	No Not applicable (do not have these facilities)
O Yes	

Sodium or potassium methylate or ethylate

If yes, please	provide information on these measures.
ORRChem auxiliary n	to the legal provisions (Annex 1.7 Number 3.1 Letter c of the Chemical Risk Reduction Ordinance,) the use of mercury (CAS RN 7439-97-6), mercury compounds and mercury-containing preparations as naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury in the n of sodium or potassium methylate or ethylate is prohibited. This regulation is in force since January 1,
Production	of polyurethane using mercury-containing catalysts
O Yes	No Not applicable (do not have these facilities)
If yes, please	provide information on these measures.
ORRChem	to the legal provisions (Annex 1.7 Number 3.1 Letter c of the Chemical Risk Reduction Ordinance,) the use of mercury (CAS RN 7439-97-6), mercury compounds and mercury-containing preparations as
-	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing n polyurethane production is prohibited. This regulation is in force since January 1, 2018.
catalysts i 4. Is there ocesses I	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing in polyurethane production is prohibited. This regulation is in force since January 1, 2018. The any use of mercury or mercury compounds in a facility using the manufacture is the interest of the in
catalysts i 1. Is there ocesses I	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing in polyurethane production is prohibited. This regulation is in force since January 1, 2018.
catalysts i 4. Is there ocesses I	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing in polyurethane production is prohibited. This regulation is in force since January 1, 2018. The any use of mercury or mercury compounds in a facility using the manufacture is the interest of the in
4. Is there ocesses I onvention Yes 5. Is there oce hich merc	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing in polyurethane production is prohibited. This regulation is in force since January 1, 2018. The any use of mercury or mercury compounds in a facility using the manufacture is the date of entry into force of the for the party?
4. Is there ocesses I onvention Yes 5. Is there oce hich merc	naterials in industrial manufacturing processes is prohibited. Therefore the use of mercury-containing in polyurethane production is prohibited. This regulation is in force since January 1, 2018. The any use of mercury or mercury compounds in a facility using the manufacturisted in Annex B that did not exist prior to the date of entry into force of the for the party? No No No

Mercury was used as a cathode in chlor-alkali electrolysis at a Swiss plant until 2016. The average annual consumption to offset mercury losses was around 960 kg. The lost mercury ended up in the various waste products from the process. This was processed in Switzerland and the mercury was recovered. A small portion of the mercury also ended up in the environment via the air and wastewater. At the end of 2016, chlor-alkali electrolysis was switched from the amalgam process to the mercury-free diaphragm process. Until 2013, mercury was also used as a catalyst in a chemical synthesis. The mercury was then fully regenerated by the user on site,

t. 7: Artisanal a	nd small-scale gold mining
ercury con	eps been taken to reduce, and where feasible eliminate, the use of mercury and appounds in, and the emissions and releases to the environment of mercury all and small-scale gold mining and processing subject to article 7 within you
O Yes	
○ No	
	s no artisanal and small-scale gold mining and processing subject to article 7 in which mercury mation is used in the territory
2 Has the	nowty determined and notified the accretoriet that auticonal and amall cools
	party determined and notified the secretariat that artisanal and small-scale and processing within its territory is more than insignificant?
	·
	·
old mining	and processing within its territory is more than insignificant?
Old mining O Yes	and processing within its territory is more than insignificant?
Old mining O Yes	and processing within its territory is more than insignificant?
Old mining O Yes	and processing within its territory is more than insignificant?
Yes Art E - Addi	and processing within its territory is more than insignificant?
Yes Art E - Addi	and processing within its territory is more than insignificant?
Yes	and processing within its territory is more than insignificant?
Yes	and processing within its territory is more than insignificant?
Yes Art E - Addi {Empty} t. 8: Emissions 1. Identify	and processing within its territory is more than insignificant? No No No No No No No No No N
Yes Art E - Addi {Empty} t. 8: Emissions 1. Identify	ond processing within its territory is more than insignificant? No No tional comments on the article in free text if the party chooses to do so
Yes Art E - Addi {Empty} t. 8: Emissions 1. Identify fmercury of	and processing within its territory is more than insignificant? No No No No No No No No No N
Yes Art E - Addi {Empty} t. 8: Emissions 1. Identify mercury of	and processing within its territory is more than insignificant? No No No No No No No No No N

C	oal-fired industrial boilers
s	melting and roasting processes used in the production of non-ferrous metals
w	aste incineration facilities
c	ement clinker production facilities
here f	party required the use of best available techniques or best environmental practices (BAT/BEP) to control and easible reduce emissions for new sources no later than 5 years after the date of entry into force of the cion for the party?
○ Y	es O No
lease (explain
been	een 2017 and 2019 the amount of waste (municipal solid waste, hazardous waste, sewage sludge) that has incinerated in Swiss facilities remains stable at 4.4 mio tons p.a. About 4 mio tons of combustible waste has incinerated in the 30 municipal solid waste incinerators plants. No new plant has been built since 2017.
proce tons.	time period from 2017 to 2019 the consumption of coal (bituminous coal and lignite) as fuel in industrial sses amounted between 3710 (2019) and 4510 (2017) terajoules which corresponds to 150'000 to 185'000 The quantity used in the manufacture of cement was between 2950 (2019) and 3630 (2017) terajoules 000 - 150'000 tons). There were no new sources within the category coal-fired industrial boilers in this period he
	elevant documentation {Empty}
issio	atify any Annex D source categories for which there are existing sources of his of mercury or mercury compounds as defined in paragraph 2 (e) of article 8. In of those source categories, select and provide details on the measures implemented under paragraph 5 of and explain the progress that these applied measures have achieved in reducing emissions over time in your in the second of the se
▼ Coa	-fired power plants
	A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
	Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
	Use of BAT/BEP to control emissions from relevant sources
	Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions

	npty}
ogr	ess
{En	npty}
oal-	fired industrial boilers
	A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
	Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
	Use of BAT/BEP to control emissions from relevant sources
	Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
	Alternative measures to reduce emissions from relevant sources
eas	ures
cor not an i lim valu	cording to the provisions of the Ordinance on Air Pollution Control (OAPC, SR 814.318.142.1) the accentration of mercury (expressed as total mercury) in the exhaust air of stationary installations shall exceed 0.2 mg/m3 at a mass flow rate ≥ 1 g/h (preventive emission limitation). If it is established that individual existing installation is causing excessive ambient air pollution levels, even if this emission it value is not exceeded, the enforcement authorities of the Canton shall impose a stricter emission limit use for the installation concerned. k to the OAPC: os://www.fedlex.admin.ch/eli/cc/1986/208_208_208en
ogr	ess
	mpaired with the total mercury air emissions in Switzerland the share of emissions of coal fired ustrial boilers is of less importance.

	Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
	lse of BAT/BEP to control emissions from relevant sources
	Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
	Alternative measures to reduce emissions from relevant sources
∕leasuı	res
{Emp	ty}
Progres	ss
{Emp	ty}
Naste i	ncineration facilities
	quantified goal for controlling and, where feasible, reducing emissions from relevant sources
₩ E	mission limit values for controlling and, where feasible, reducing emissions from relevant sources
∀ (Ise of BAT/BEP to control emissions from relevant sources
	Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
	Alternative measures to reduce emissions from relevant sources
∕leasuı	res
conc	rding to the provisions of the Ordinance on Air Pollution Control (OAPC, SR 814.318.142.1) the entration of mercury (expressed as total mercury) in the exhaust air of municipal waste incinerations s or hazardous waste incineration plants shall not exceed 0.05 mg/m3.
	to the OAPC: ://www.fedlex.admin.ch/eli/cc/1986/208_208_208/en
	ss ·

☐ A au	antified goal for controlling and, where feasible, reducing emissions from relevant sources
Emis	sion limit values for controlling and, where feasible, reducing emissions from relevant sources
✓ Use	of BAT/BEP to control emissions from relevant sources
Mult	-pollutant control strategy that would deliver co-benefits for control of mercury emissions
Alter	native measures to reduce emissions from relevant sources
Measures	
	erland, there are six plants producing clinker and cement. The Swiss plants are rather small and do ed a capacity of 3'000 tonnes of clinker per day. All of them use state of the art dry process gy.
	sures for existing sources under paragraph 5 of article 8 been implemented no later than 10 years at nto force of the Convention for the party?
Yes	○ No
las the	○ No party prepared an inventory of emissions from relevant sources within 5 force of the Convention for it?
las the	party prepared an inventory of emissions from relevant sources within 5 force of the Convention for it?
Has the try into	party prepared an inventory of emissions from relevant sources within 5

in December 2012 of the Aarhus Protocol on Heavy Metals, compliance with this value reflects BAT. Swiss

municipal waste incinerations plants today achieve lower emission levels for mercury.

re S h	neasures alone. For this reason the Aarhus Protocol on Heavy Metals, a protocol to the Geneva Convention on Air Pollution of 1979, was adopted in 1998. It aims to reduce emissions of the heavy metals lead, cadmium and nercury. When the Protocol was amended in December 2012, the emissions mitigation measures were adapted to effect state of the art technology. The Protocol applies to the UNECE region, which covers the EU member states, switzerland, the states of the former Soviet Union, Canada and the United States of America. Since Switzerland as ratified the protocol, it has to establish a emission inventory for mercury, which is updated annually. The eporting follows the rules laid down in the "EMEP/EAA Air Pollutant Emission Inventory Guidebook".
	ink to the inventory: ttps://www.ceip.at/status-of-reporting-and-review-results/2021-submission
	ink to the guidebook: ttps://www.eea.europa.eu//publications/emep-eea-guidebook-2019
tta	ach {Empty}
	Has the party chosen to establish criteria to identify relevant sources covered within a ce category?
	Yes No
	Has the party chosen to prepare a national plan setting out the measures to be taken to lemissions from relevant sources and its expected targets, goals and outcomes? Yes No
t I	E - Additional comments on the article in free text if the party chooses to do so
re a e ir	as a party of the Protocol on Heavy Metals (Aarhus Protocol of 24 June 1998) Switzerland has committed to educe its mercury emissions into the atmosphere. These emissions have been reduced by 90%, from pproximately 6400 kg in 1990 to around 800 kg in 2005. The declining trend continues, although to a lesser extent: emissions were 15% lower in 2019 than in 2005. Today emissions of mercury mainly stem from waste incineration. A significant reduction has been achieved in this source category in the period 1990–2003 by quipping municipal solid waste incineration plants with flue gas treatment systems or improving the technology installed already.
	Releases
9: I	

 Yes Relevant sources do not exist in the territory 	Have not been a party for 5 years	○ No
E - Additional comments on the article in fr	ee text if the party chooses to d	lo so
The Swiss Pollutant Release and Transfer Register (SwissPland transfers of waste from point sources and from diffuse inputs to waste water, water or soil exceed 1 kg per year. In sources of mercury releases have been identified. These fin mercury flows and fluxes from wastewater. The results allow wastewater of 130 ± 30 kg THg/year (15.7 mg/capita/y), of 0.5 kg THg/year (0.57 mg/capita/y) is discharged with the corresponds to only 0.5 of THg carried by the major Sw originates from diffuse sources.	sources. Emissions of mercury must be re the period between 2017 and 2020 no relev dings have been confirmed in a nationwide wed estimation of a total mercury load (THo which 96 ± 4% is retained in sewage sludge treated wastewater into surface waters. T	ported if the vant survey on g) in Swiss About 4.7
Link to SwissPRTR: https://www.bafu.admin.ch/bafu/en/home/topics/chemicals Cited survey: Suess, E., Berg, M., Bouchet, S., Cayo, L., Hug, S. J., Kaegi, F from wastewater: a nationwide survey in Switzerland. Water https://doi.org/10.1016/j.watres.2020.115708	R., Buser, A. M. (2020). Mercury loads an	d fluxes
Mercury inputs to soils occurred in the past with the applica practice has been completely banned since 2008. In addition fertilisers containing recovered phosphorus is limited to 1 g phosphorus, respectively (Annex 2.6 ORRChem). Mercury concentrations in soils that are above the guidance Ordinance (SoilPO, SR 814.12), are sometimes detected in g above 2,000 µg Hg/kg have been detected due to historical	n, the mercury content of compost and mir ram per tonne of dry matter and 2 gram pe value of 500 µg Hg/kg, as set out in the So gardens in urban areas; in some soils, conc	eral r tonne of oil Pollution entrations
Link to the ORRChem: https://www.fedlex.admin.ch/eli/cc/2005/478/en		
0: Environmentally sound interim storage of mercury, other th	nan waste mercury	
. Has the party taken measures to ensure th cury and mercury compounds intended for a vention is undertaken in an environmentally	use allowed to a party under th	

The owners of facilities, where more than 200 kg of mercury or more than 2'000 kg of mercury compounds are stored, are subject to the provisions of the Major Accidents Ordinance (MAO, SR 814.012). Such owners are obliged to take all necessary safety measures to prevent incidents and have to take appropriate precautions should incidents nevertheless happen. The authorities control the compliance of this duty in a two-stage process consisting of two instruments: a summary report (1st stage) and a possible risk assessment (2nd stage). The cantons shall periodically inform the Federal Office for the Environment (FOEN) on the hazard potentials and risks present on their territory and on the measures taken.

Link to the MAO:

https://www.fedlex.admin.ch/eli/cc/1991/748_748_748/en

Part E - Additional comments on the article in free text if the party chooses to do so

{Empty}			

▼ Art. 11: Mercury wastes

11.1. Have measures outlined in article 11, paragraph 3, been implemented for the party's mercury waste?

\bigcirc	Yes	No

Please describe the measures implemented pursuant to paragraph 3, and please also describe the effectiveness of those measures.

With effect from 1. January 2018 the Waste Ordinance (ADWO, SR 814.600) defines mercury waste as follows:

- 1) waste that contains mercury or mercury compounds (which includes waste that is contaminated with mercury or mercury compounds),
- 2) mercury or mercury compounds originating from the treatment of mercury waste in terms of number 1, with exemption of mercury that may be exported with an export licence in accordance with the provisions of the Chemical Risk Reduction Ordinance (ORRChem),
- 3) mercury or mercury compounds that are no longer required as auxiliary substances in industrial processes.

Furthermore the ADWO stipulates the following:

- 1) Waste consisting of mercury or mercury compounds as well as waste that contains mercury or mercury compounds must be handled and disposed of in an environmentally sound manner by using state of the art technology.
- 2) Metallic mercury or mercury compounds derived from the handling of mercury waste remain mercury waste which must be handled and deposited of in an environmentally sound manner, provided the mercury or mercury compounds may not be handed over for a permissible use, or the metal may not be exported with an export licence in accordance with the provisions of the ORRChem.
- 3) Mercury or mercury compounds that are no longer required as auxiliary substances in industrial processes must be treated and deposited in an environmentally sound manner by using state of the art technology. The Placing on the market or use of such mercury or mercury compounds is not allowed.

This means, in other words, that metallic mercury or mercury compounds derived from the treatment of mercury waste remain waste that must be handled and deposited in an environmentally sound manner, provided the mercury or mercury compounds may not be handled over for a permissible use according to national legislation, or the mercury may not be exported with an export licence in accordance with the provisions of the ORRChem. An

export licence may be granted only for ana pre-dosed capsules for dental amalgam fill	llysis and research purposes or until end of 2027 for the manufacture of lings.
DETEC Ordinance concerning Lists for the handled in an environmentally sound mann	particular the Waste Movements Ordinance (OMW SR 814.610) and the Movements of Waste (LVA, SR 814.610.1) require that mercury waste is ner. The import and export of waste consisting of mercury or mercury or mercury compounds have to take place in accordance with the 814.05).
Links to waste legislation: https://www.fedlex.admin.ch/eli/cc/2015/8 https://www.fedlex.admin.ch/eli/cc/2005/5 https://www.fedlex.admin.ch/eli/cc/2005/7 https://www.fedlex.admin.ch/eli/cc/1992/1	551/fr (OMW) 714/fr (LVA)
11.2. Are there facilities for final discompounds in the party's territory?	sposal of waste consisting of mercury or mercury
○ Yes ◎ No ○ I do not know	V
Part E - Additional comments on the	e article in free text if the party chooses to do so
{Empty}	
7 Art. 12: Contaminated sites 12.1. Has the party endeavoured to contaminated by mercury or mercury	develop strategies for identifying and assessing sites
© Yes ○ No	
Please elaborate	
Definition of "contaminated site": In Switzerland, a polluted site is a location site (landfill) or a industrial or accident site	whose pollution originates either from an operated or closed disposal e, where waste was deposited or seeped into the ground. If a polluted r where there is a real danger that such effects may arise), it must be s "contaminated site".
Protection Act (EPA, SR 814.01), the Conta Charge for the Remediation of Contaminate	ntaminated sites in Switzerland is provided by the Environmental aminated Sites Ordinance (CSO, SR 814.680) and the Ordinance on the ed Sites (OCRCS, SR 814.681). In addition, the Federal Office for the documents that provide guidance on how to comply with legislative

	requirements on contaminated sites.
	Status of implementation: To date, all registers of polluted sites have been completed by the Cantons and the federal administration. About 70% of all sites requiring further investigation have been investigated (target for completion: 2028) and about 40% of all contaminated sites have been remediated (target for completion: 2040). Around 40 of the 1,500 contaminated sites already remediated were mercury contaminated sites. The largest mercury contaminated site (several km2 of soil contaminated with mercury) is located in the Canton of Valais. The area heavily contaminated with mercury (in residential and agricultural zones) is currently being remediated.
	Links: Environmental Protection Act, EPA: https://www.fedlex.admin.ch/eli/cc/1984/1122_1122_1122_en#tit_2/chap_4/sec_4 Contaminated Sites Ordinance, CSO: https://www.fedlex.admin.ch/eli/cc/1998/2261_2261_2261/en Ordinance on the Charge for the Remediation of Contaminated Sites, OCRCS: https://www.fedlex.admin.ch/eli/cc/2008/670/en Enforcement aids: https://www.bafu.admin.ch/bafu/en/home/topics/contaminated-sites/publications-studies.html
Par	t E - Additional comments on the article in free text if the party chooses to do so
	Soil decontamination is currently being carried out in settlements in the Canton of Valais (see 12.1). In this area, soils were contaminated with mercury through the deposition of excavated mercury-contaminated material from an industrial area and/or sludge and sediments, which were excavated from a sewer contaminated with mercury-containing industrial wastewater during maintenance work between 1930 and 1990.
	Links: https://www.vs.ch/web/sen/ausgangslage https://quecksilber.lonza.com/quecksilber/quecksilber-im-grossgrundkanal
13.1	3: Financial resources and mechanism 1. Has the party undertaken to provide, within its capabilities, resources in respect of se national activities that are intended to implement the Convention in accordance with
	national policies, priorities, plans and programmes?
	◯ Yes ○ No
Р	lease specify
	The national implementation and the participation in the further development of the Convention has resource implications on the national level in Switzerland. The personnel expenditure corresponds to about two additional positions in the Federal Office for the Environment (FOEN). These positions are compensated internally by means of adjustments to current administrative tasks.
Р	lease provide comments, if any.
	{Empty}

▼

O Yes	○ No
ease specif	y
	d contributed to the Global Environment Facility Trust Fund and to the specific international Programme capacity-building and technical assistance.
GEF 2017-	2021: CHF 149,242,000
SIP 22017	2021: CHF 1,100,000
lease provic	e comments, if any.
{Empty}	
3 Sunnle	mental: Has the party provided financial resources to assist developing-co
ties and/	mental: Has the party provided financial resources to assist developing-cou or parties with economies in transition in the implementation of the Conver er bilateral, regional and multilateral sources or channels?
ties and/	or parties with economies in transition in the implementation of the Conver
ties and/ ough othe	or parties with economies in transition in the implementation of the Converger bilateral, regional and multilateral sources or channels? No
Ties and/ ough other Yes Please specifications	or parties with economies in transition in the implementation of the Converger bilateral, regional and multilateral sources or channels? No
Yes Please specif	or parties with economies in transition in the implementation of the Converger bilateral, regional and multilateral sources or channels? No No No No No No No No No N
Yes Please specif	or parties with economies in transition in the implementation of the Conventer bilateral, regional and multilateral sources or channels? No No No No No No No No No N
Yes Please specifications and the second sec	or parties with economies in transition in the implementation of the Conventer bilateral, regional and multilateral sources or channels? No No No No No No No No No N
Ves Please specifications regard to the providence of the provide	or parties with economies in transition in the implementation of the Conventer bilateral, regional and multilateral sources or channels? No No No No No No No No No N

{Empty}

	1. Has the party cooperated to provide capacity-building or technical assistance, suant to article 14, to another party to the Convention?
	O Yes O No
F	Please specify
	Switzerland, as the host country of the secretariat, provides 1 million Swiss francs per year to the Convention of which 40 per cent is prioritized for the purpose of supporting the participation of representatives from developing countries in the meetings of the Conference of the Parties. In addition Switzerland has been financially supporting the organization of regional preparatory meetings before conferences of parties and the participation of representatives from developing countries to those meetings. Moreover, Switzerland has supported capacity building through its economic cooperation and development as well as with its financial support through UNIDO and UNITAR.
	○ Yes ○ No Please specify
F	
F	No capacity-building or technical assistance is needed.
F	
	No capacity-building or technical assistance is needed.

	as supported capacity building through its economic cooperation and development as well as wit
no miancial S	upport through UNIDO and UNITAR, including for the topics of ASGM and mercury waste.
t E - Additi	onal comments on the article in free text if the party chooses to do so
{Empty}	
16: Health aspe	ects
	easures been taken to provide information to the public on exposure to
cury in ac	cordance with paragraph 1 of article 16?
O Yes	○ No
O Yes	○ No
	No f yes, describe the measures that have been taken.
upplemental: I The general S amalgam filli	
Supplemental: I The general S amalgam filli is now barely	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercu
The general S amalgam filli is now barely phased out, e workplace-re	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare.
The general S amalgam filli is now barely phased out, e workplace-re Under the aus	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitorical
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare.
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoric EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations in
The general Samalgam filli is now barely phased out, e workplace-re Under the auspilot study (D concentration mercury level their hair con	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring in the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury there	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury has in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury level their hair con mercury there participation	Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercury used in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoric EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury in in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerland.
The general Samalgam filli is now barely phased out, e workplace-re Under the auspilot study (D concentration mercury level their hair con mercury there participation by the Depart	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury has in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition
upplemental: I The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury level their hair con mercury there participation by the Depart mercury cond	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercurused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury has in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlant ment of Occupational and Environmental Medicine at the University of Zurich. The study measure
upplemental: I The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury there participation by the Depart mercury cond from Upper V	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercury used in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoric EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury has in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerland tentral part of Occupational and Environmental Medicine at the University of Zurich. The study measure tentrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old).
upplemental: I The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury ther participation by the Depart mercury conc from Upper V conducted in and vegetable	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercurused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury are in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerland ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surverparallel, data were collected on the number of amalgam fillings and on the consumption of sea fises from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measure
upplemental: I The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury there participation by the Depart mercury cond from Upper V conducted in and vegetable concentration	Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercury used in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury are in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the last in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlan ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surv parallel, data were collected on the number of amalgam fillings and on the consumption of sea fises from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measures in hair samples are unremarkable. There were strong indications of a link between mercury
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury there participation by the Depart mercury cond from Upper V conducted in and vegetable concentration concentration	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercursed in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitorise EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury as in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlan ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surve parallel, data were collected on the number of amalgam fillings and on the consumption of sea fises from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measures in hair samples are unremarkable. There were strong indications of a link between mercury in in hair and the consumption of sea fish. Furthermore, a strong evidence of a correlation between
The general S amalgam filli is now barely phased out, e workplace-re Under the aus pilot study (D concentration mercury leve their hair con mercury there participation by the Depart mercury cond from Upper V conducted in and vegetable concentration concentration mercury cond	Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercury used in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury are in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the last in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlan ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surv parallel, data were collected on the number of amalgam fillings and on the consumption of sea fises from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measures in hair samples are unremarkable. There were strong indications of a link between mercury
The general Samalgam filli is now barely phased out, eworkplace-re Under the auspilot study (Dancentration mercury level their hair commercury their participation by the Depart mercury conducted in and vegetable concentration mercury conducted in and vegetable concentration mercury conducted seems.	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercurused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury are in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations is usumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlan ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surve parallel, data were collected on the number of amalgam fillings and on the consumption of sea fises from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measures in hair samples are unremarkable. There were strong indications of a link between mercury as in hair and the consumption of sea fish. Furthermore, a strong evidence of a correlation between tentrations in urine samples and the number of amalgam fillings, age and when subjects last
The general Samalgam filli is now barely phased out, eworkplace-re Under the auspilot study (Dancentration mercury level their hair commercury their participation by the Depart mercury conducted in and vegetable concentration mercury conducted in and vegetable concentration mercury conducted seems.	f yes, describe the measures that have been taken. Swiss population may be exposed to mercury through food consumption, inhaled ambient air, dentings or through accidental exposure by broken or damaged mercury containing products. As mercurused in products marketed in Switzerland and the use of mercury in industrial processes has been exposure of the general population to mercury occurs mainly through food consumption and lated exposures are rare. Spices of the Federal Office of Public Health (FOPH), Switzerland took part in a human biomonitoring EMOCOPHES) coordinated by the EU between 2010 and 2012 which measured mercury are in the hair of mother-child pairs in 17 countries. Compared with figures from other countries, the is in hair in the study cohort are unremarkable. Mothers with the highest mercury concentrations in sumed fish and seafood more often. The number of amalgam fillings and the number of broken mometers or energy-saving lamps had no influence on mercury concentrations in hair. In addition in the DEMOCOPHES study, another biomonitoring study on mercury was conducted in Switzerlan ment of Occupational and Environmental Medicine at the University of Zurich. The study measure centrations in the hair and urine of 64 mothers (25 –55 years old) and 107 children (3–12 years old alais. This study cohort lives in an area where some soils contain high levels of mercury. In a surve parallel, data were collected on the number of amalgam fillings and on the consumption of sea fise from contaminated gardens. Compared with the results of the DEMOCOPHES study, the measure in hair samples are unremarkable. There were strong indications of a link between mercury as in hair and the consumption of sea fish. Furthermore, a strong evidence of a correlation between the surface and the number of amalgam fillings, age and when subjects last and fish, was observed. No correlation was found between mercury concentrations in hair and urine

samples an the results will be published.

References:

.2. Have a	w.schweizer-gesundheitsstudie.ch uny other measures been taken to protect human health in accordance with
icle 16?	
O Yes	O No
rt E - Add	itional comments on the article in free text if the party chooses to do so
{Empty}	
17: Informat	ion exchange
	e party facilitated the exchange of information referred to in article 17,
.1. Has th	e party facilitated the exchange of information referred to in article 17,
.1. Has th ragraph 1	e party facilitated the exchange of information referred to in article 17, ?
.1. Has the ragraph 1 Ves Please provident The Federa	e party facilitated the exchange of information referred to in article 17, ? No
.1. Has the ragraph 1 Ves Please provident The Federa	e party facilitated the exchange of information referred to in article 17, No No No No Office for Environment (FOEN) has funded scientific work relating to emissions of mercury to land, air
.1. Has the ragraph 1	e party facilitated the exchange of information referred to in article 17, No No No No Office for Environment (FOEN) has funded scientific work relating to emissions of mercury to land, air
.1. Has the ragraph 1 © Yes Please provide the Federal and water.	e party facilitated the exchange of information referred to in article 17, No No No Office for Environment (FOEN) has funded scientific work relating to emissions of mercury to land, air Results of the studies had been published in scientific journals.
.1. Has the ragraph 1	e party facilitated the exchange of information referred to in article 17, No No No Office for Environment (FOEN) has funded scientific work relating to emissions of mercury to land, air Results of the studies had been published in scientific journals.
.1. Has the ragraph 1 © Yes Please provide the Federal and water.	e party facilitated the exchange of information referred to in article 17, No No No Office for Environment (FOEN) has funded scientific work relating to emissions of mercury to land, air Results of the studies had been published in scientific journals.

http://www.eu-hbm.info/democophes

▼ Art. 18: Public information, awareness and education

O Yes	○ No
yes, please	e indicate the measures that have been taken and the effectiveness of those measures
public par Aarhus, De been a par Pollutant I Swiss PRT	d National Nations Economic Commission for Europe (UNECE)'s convention on access to information, ticipation in decision-making processes and access to justice in environmental matters was signed in enmark in 1998 and came into force in 2001. Switzerland ratified the Convention in March 2014 and has rty to the agreement since 1 June 2014. There is a protocol to the Aarhus Convention, the Protocol on Release and Transfer Register (PRTR). Switzerland ratified this protocol at the end of of 2006. The TR was set up at the beginning of 2009. Emissions of mercury must be reported if the inputs to waste er or soil exceed 1 kg per year.
Link to the	PRTR: rw.bafu.admin.ch/bafu/en/home/topics/chemicals/state/swissprtr-pollutant-register.html
In the year report con of use, wa knowledge these poll	r 2018 the Federal Office for Environment has published a status report on mercury in Switzerland. The stains a brief introduction to national and international regulations on mercury, followed by an overview ste volume and disposal of mercury in Switzerland. A further part of the report summarises the state of a on environmental releases and mercury pollution in individual environmental compartments, evaluates ution levels and highlights existing knowledge gaps. The last part presents the main sources of mercury in the Swiss population.
Switzerlar Link to the https://ww	: Ritscher A., 2018: Use, disposal and environmental releases of mercury. An overview of the situation in ad. Federal Office for the Environment, Bern. State of the environment no. 1832: 50 p. e report: www.bafu.admin.ch/bafu/en/home/topics/chemicals/publications-studies/publications/use-disposal-ental-releases-mercury.html
E - Adc	litional comments on the article in free text if the party chooses to do so
{Empty}	
9: Researc	h, development and monitoring
	ne party undertaken any research, development and monitoring in accordanc aph 1 of article 19?

In Switzerland and other European countries, atmospheric mercury deposition is monitored within the framework of a programme under the 1979 Geneva Convention on Air Pollution by measuring mosses. Mosses are used as indicators because they do not have roots, so they take up water, nutrients and pollutants such as mercury exclusively from the air. The mercury concentrations measured between 1990 and 2015 declined by up to 50% and confirm the results of calculations done by the Meteorological Synthesizing Centre-East (MSC-E) which show a decreasing in atmospheric mercury deposition.

Reference:

Deposition of atmospheric pollutants in Switzerland 1990-2015 (Summary) https://www.bafu.admin.ch/bafu/en/home/topics/air/publications-studies/publications/deposition-of-atmospheric-pollutants-in-switzerland-summary.html

Part E - Additional comments on the article in free text if the party chooses to do so

In Switzerland air mercury concentrations (gaseous elemental mercury, GEM) are not monitored routinely. Within the framework of the European Monitoring and Evaluation Programme (EMEP), a programme under the 1979 Geneva Convention on Air Pollution, the Meteorological Synthesizing Centre-East (MSC-E) uses mercury emission inventories to model the resulting atmospheric mercury pollution. The comparison of modelling results with observations at nine stations shows a good agreement. The levels calculated for Switzerland were between 1.40 ng/m3 and 1.85 ng/m3 in 2019. These values are comparatively similar to these measured at the urban location Zurich for the period from January 2014 to December 2015. The 10th percentile was 1.6 ng/m3, the 90th percentile 2.1 ng/m3 and the annual median 1.8 ng/m3. In a project funded by the Federal Office for the Environment (FOEN) the data on atmospheric measurements in the city of Zurich have been used to estimate mercury emissions in a top-down approach. This approach amounted to estimated nationwide emissions of 494 to 837 kg mercury per year. Compaired to the 658 kg per year of the Swiss CLRTP report, this estimation lies in a well acceptable range. In a further study conducted at the remote high altitude monitoring station Jungfraujoch, European emissions of 89 ± 14 t/a for elemental mercury have been estimated using the top-down approach. This emission estimate was 17% higher than the bottom-up emission inventory, which is within stated uncertainties.

References:

Denzler, B., Bogdal, C., Kern, C., Tobler, A., Huo, J., and Hungerbühler, K.: Urban source term estimation for mercury using a boundary-layer budget method, Atmos. Chem. Phys., 19, 3821–3831, https://doi.org/10.5194/acp-19-3821-2019, 2019.

Denzler, B., Bogdal, C., Henne, S., Obrist, D., Steinbacher, M., and Hungerbühler, K.: Inversion Approach to Validate Mercury Emissions Based on Background Air Monitoring at the High Altitude Research Station Jungfraujoch (3580 m), Environmental Science & Technology 2017 51 (5), 2846-2853, https://doi.org/10.1021/acs.est.6b05630.

Part C

Part C: Comments regarding possible challenges in meeting the objectives of the Convention (Art. 21, para. 1)

{Empty}	

' Sup	plemental - Additional comments
	pplemental: Part D: Comments regarding the reporting format and possible provements, if any
	We have no additional comments.