

US EPA ARCHIVE DOCUMENT

Table EP7. Results for All Exposure Pathways: Surface Impoundments - unitless

Surface Impoundments - 2000m - by Exposure		Scenario 1													
		10-6		99% Pop		95% Prob		HH (0.1)		Eco (1)		Milk Ingestion		Fish Ingestion	
		Air Inhalation		Soil Ingestion		Water Ingestion		Crop Ingestion		Beef Ingestion		Milk Ingestion		Fish Ingestion	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	1E-08	< 1E-01	< 1E-08	< 1E-01	7E-09	< 1E-01	1E-06	< 1E-01	1E-05	0.6	2E-05	1	< 1E-08	< 1E-01
Benzene	71-43-2	7E-07	note 3	< 1E-08	note 3	< 1E-08	note 3	2E-06	note 3	9E-07	note 3	8E-06	note 3	< 1E-08	note 3
Pentachlorophenol	87-86-5	note 2	note 3	< 1E-08	< 1E-01	8E-07	< 1E-01	< 1E-08	< 1E-01	< 1E-05	0.05	8E-06	< 1E-01	< 1E-08	< 1E-01
Mercury	7439-97-6	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

		Scenario 1											
		10-6		99% Pop		95% Prob		HH (0.1)		Eco (1)		Groundwater Total	
		Shower Inhalation		Breast Milk		All Inhalation		All Ingestion		All Ingest & Inhal		Groundwater Total	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	5E-09	< 1E-01	NA	NA	3E-07	< 1E-01	< 1E-06	< 1E-01	No curve	No curve	No curve	No curve
Benzene	71-43-2	< 1E-08	note 3	NA	NA	7E-07	note 3	< 1E-06	note 3	< 1E-06	NA	< 1E-08	NA
Pentachlorophenol	87-86-5	note 2	note 3	NA	NA	note 2	note 3	< 1E-06	< 1E-01	NA	NA	NA	NA
Mercury	7439-97-6	note 2	< 1E-01	NA	NA	note 2	< 1E-01	note 2	< 1E-01	NA	No curve	NA	No curve
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

- note 1: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.
- note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.
- NA: Not Applicable
- No Curve: For this chemical, inhalation and ingestion pathways are not additive.

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Surface Impoundments - 2000m - by Exposure		Scenario 2													
		10-6		99% Pop		90% Prob		HH (1)		Eco (1)		Milk Ingestion		Fish Ingestion	
		Air Inhalation		Soil Ingestion		Water Ingestion		Crop Ingestion		Beef Ingestion		Milk Ingestion		Fish Ingestion	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	1E-08	< 1E-01	< 1E-08	< 1E-01	9E-09	< 1E-01	1E-06	< 1E-01	1E-05	0.6	3E-05	1	< 1E-08	< 1E-01
Benzene	71-43-2	5E-07	note 3	< 1E-08	note 3	< 1E-08	note 3	2E-06	note 3	< 1E-06	note 3	6E-06	note 3	< 1E-08	note 3
Pentachlorophenol	87-86-5	note 2	note 3	< 1E-08	< 1E-01	< 1E-06	< 1E-01	< 1E-08	< 1E-01	< 5E-06	< 1E-01	< 5E-06	< 1E-01	< 1E-08	< 1E-01
Mercury	7439-97-6	note 2	< 1E-01	No curve	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

		Scenario 2											
		10-6		99% Pop		90% Prob		HH (1)		Eco (1)		Groundwater Total	
		Shower Inhalation		Breast Milk		All Inhalation		All Ingestion		All Ingest & Inhal		Groundwater Total	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	6E-09	< 1E-01	NA	NA	< 1E-08	< 1E-01	< 1E-06	< 1E-01	No curve	No curve	No curve	No curve
Benzene	71-43-2	< 1E-08	note 3	NA	NA	5E-07	note 3	< 1E-06	note 3	< 1E-06	NA	< 1E-08	NA
Pentachlorophenol	87-86-5	note 2	note 3	NA	NA	note 2	note 3	< 1E-06	< 1E-01	NA	NA	NA	NA
Mercury	7439-97-6	note 2	< 1E-01	NA	NA	note 2	< 1E-01	note 2	< 1E-01	NA	No curve	NA	No curve
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

- note 1: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.
- note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.
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Surface Impoundments - 2000m - by Exposure		Scenario 3													
		10-5		99% Pop		90% Prob		HH (1)		Eco (1)		Milk Ingestion		Fish Ingestion	
		Air Inhalation		Soil Ingestion		Water Ingestion		Crop Ingestion		Beef Ingestion		Milk Ingestion		Fish Ingestion	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	5E-06	0.04	< 1E-08	< 1E-01	< 1E-06	< 1E-01	1E-05	0.2	2E-05	2	4E-05	2	< 1E-08	< 1E-01
Benzene	71-43-2	6E-06	note 3	< 1E-08	note 3	2E-09	note 3	9E-06	note 3	9E-06	note 3	4E-05	note 3	< 1E-08	note 3
Pentachlorophenol	87-86-5	note 2	note 3	< 1E-08	< 1E-01	< 1E-06	< 1E-01	< 1E-08	< 1E-01	< 5E-06	< 1E-01	< 5E-06	< 1E-01	< 1E-08	< 1E-01
Mercury	7439-97-6	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

		Scenario 3											
		10-5		99% Pop		90% Prob		HH (1)		Eco (1)		Groundwater Total	
		Shower Inhalation		Breast Milk		All Inhalation		All Ingestion		All Ingest & Inhal		Groundwater Total	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	6E-08	< 1E-01	NA	NA	5E-06	0.04	< 1E-05	0.2	No curve	No curve	No curve	No curve
Benzene	71-43-2	9E-10	note 3	NA	NA	6E-06	note 3	7E-06	note 3	8E-06	NA	3E-09	NA
Pentachlorophenol	87-86-5	note 2	note 3	NA	NA	note 2	note 3	< 1E-06	< 1E-01	NA	NA	NA	NA
Mercury	7439-97-6	note 2	< 1E-01	NA	NA	note 2	< 1E-01	note 2	< 1E-01	NA	No curve	NA	No curve
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

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Surface Impoundments - 2000m - by Exposure		Scenario 4													
		10-5		95% Pop		90% Prob		HH (1)		Eco (10)		Milk Ingestion		Fish Ingestion	
		Air Inhalation		Soil Ingestion		Water Ingestion		Crop Ingestion		Beef Ingestion		Milk Ingestion		Fish Ingestion	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	4E-06	0.09	< 1E-08	< 1E-01	3E-07	< 1E-01	1E-05	0.2	6E-05	5	7E-05	6	6E-10	< 1E-01
Benzene	71-43-2	< 5E-06	note 3	< 1E-08	note 3	< 1E-08	note 3	< 1E-05	note 3	< 1E-04	note 3	< 1E-04	note 3	< 1E-08	note 3
Pentachlorophenol	87-86-5	note 2	note 3	< 1E-08	< 1E-01	< 1E-08	< 1E-01	< 1E-08	< 1E-01	< 5E-06	< 1E-01	< 5E-06	< 1E-01	< 1E-08	< 1E-01
Mercury	7439-97-6	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01	note 2	< 1E-01
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

		Scenario 4											
		10-5		95% Pop		90% Prob		HH (1)		Eco (10)		Groundwater Total	
		Shower Inhalation		Breast Milk		All Inhalation		All Ingestion		All Ingest & Inhal		Groundwater Total	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acrylonitrile	107-13-1	7E-09	< 1E-01	NA	NA	5E-06	0.09	< 1E-05	0.3	No curve	No curve	No curve	No curve
Benzene	71-43-2	< 1E-08	note 3	NA	NA	< 5E-06	note 3	< 1E-05	note 3	< 1E-05	NA	< 1E-08	NA
Pentachlorophenol	87-86-5	note 2	note 3	NA	NA	note 2	note 3	< 1E-08	< 1E-01	NA	NA	NA	NA
Mercury	7439-97-6	note 2	< 1E-01	NA	NA	note 2	< 1E-01	note 2	< 1E-01	NA	No curve	NA	No curve
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1

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