

# SCDM Change Control and Errata Sheet

(Changes since January 2014 publication)

## Methodology Changes

Section(s)	Summary of Change(s)	Justification	Date of Change
2.1.1 Generic Values	Updated chromium description to describe assignment of chromium VI oral slope factor and IUR to total chromium	Reflect application of chromium VI values to total chromium	December 2018
5.1 Data Reporting	Updated format of example query output tables to clarify abbreviations and unit formatting	Reflect SCDM Web Query format updates	March 2018
2.1.2 Use of Compound Classes to Assign Values for Individual Substances	Clarified application of RPFs for PAHs	Correction	August 2017
2.1.4 Substances with Unique Value Selection	Corrected body mass and drinking water ingestion applied to copper HEAST value	Correction	August 2017
2.1.5 Substances with Unique Reference Hierarchy Selections	Added description for uranium RfD/MRL value from ATSDR	Address available data	August 2017
2.2.2 Weight of Evidence (WOE)	Clarified application of WOE across routes	Increase transparency	August 2017
2.3.1 Vapor Pressure	Clarified use of boiling point when vapor pressure is not available	Increase transparency	August 2017
2.3.4 Soil/Water Distribution Coefficient (Kd); Soil Organic/Carbon Partition Coefficients (Koc and Log Kow)	Added description for K <sub>oc</sub> values for ionizable organic substances	Correction	August 2017
2.4 Persistence/Degradation Information (and subsections)	Added description of Ssl Hydrolysis and Ssl Biodegradation collection	Address HRS Ssl Addition	August 2017
2.5.2 Octanol/Water Partition Coefficient (Log Kow)	Removed discussion of CHEMFATE reference no longer used.	Correction	August 2017
2.8 Physical Properties	Added descriptions for existing Air Pathway Gas/Particulate parameters, newly added Mutagen and K <sub>oc</sub> parameters, and newly added Ssl Volatile and Mutagen parameters.	Increase transparency and address HRS Ssl Addition	August 2017
3.0 Calculation Of Interim Values (and subsections)	Removed sections devoted to calculating inhalation RfD and inhalation slope factor	Address HRS Ssl Addition	August 2017
3.1 Using ED10 to estimate a Slope Factor for either oral or inhalation pathways	Clarified use of ED10 values	Increase transparency	August 2017

### Methodology Changes

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3.4 Overall Half-Lives	Added subsection for Ssl overall half-life calculation	Address HRS Ssl Addition	August 2017
3.5 Soil Water Distribution Coefficient (Kd); Soil Organic/Carbon Partition Coefficients (Koc)	Added description for newly added K <sub>oc</sub> Equation parameter	Increase transparency	August 2017
5.0 SCDM Data Reporting And Web Query	Updated example tables to include Ssl-related modifications	Address HRS Ssl Addition	August 2017
6.0 References	Added source reference abbreviations	Increase transparency	August 2017
2.1 General Protocols for SCDM Data Collection	Added a new section (Section 2.1.5)	Address substances with unique reference hierarchy selections	June 2016
2.2.1 SF, IUR, RfD and RfC Data Collection	Added description of area correction factor and decay constant	Increase transparency	June 2016
2.4.3 Radioactive Half-Lives	Revised reference hierarchy for radionuclide half-lives	Improve consistency across EPA programs	June 2016
3.1 RfC to RfD <sub>inhal</sub>	Revised default exposure factors used in equations	EPA OSWER Directive 9200.1-120 updated guidance on default exposure factors	June 2016
3.2 IUR to Inhalation Slope Factor	Revised default exposure factors used in equations	EPA OSWER Directive 9200.1-120 updated guidance on default exposure factors	June 2016
4.0 Screening Concentration Benchmarks	Revised default exposure factors used in equations	EPA OSWER Directive 9200.1-120 updated guidance on default exposure factors	June 2016
6.0 References	Updated to include additional references	New references used for radionuclide half-lives and default exposure factors	June 2016
All	Updated URLs	Ensure accessibility	June 2016
All	Updated URLs	Provide updated accessibility	December 2015
2.1.1 Generic Values	Revised to remove language describing use of mercuric chloride oral RfD for elemental mercury	Reflect new value collected from CalEPA	December 2015
2.1.4 Substances with Unique Value Selection	Revised drinking water intake from 1 L/day to 2 L/day for copper RfD calculation	Correction	December 2015

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	Added description of procedure used to determine mercuric chloride RfC	Addition of mercuric chloride to SCDM	December 2015
	Added description of procedure used to determine vanadium pentoxide RfD	Convert RfD for specificity to vanadium pentoxide	December 2015
2.2.1 SF, IUR, RfD and RfC Data Collection	Language provided to describe the use of chronic and subchronic RfDs/RfCs	Increase transparency	December 2015
2.2.4 ED10 and Weight-of-Evidence – Oral, Inhalation	Revised to clarify conversion of potency factors to ED10	Increase transparency	December 2015
2.3.2 Henry’s Law Constant	Revised to reflect removal of ChemFate reference	ChemFate reference no longer available	December 2015
2.3.3.2 Water Solubility – Metals, Metalloids and Radionuclides	Revised reference hierarchy for organic compounds	Correction	December 2015
2.3.4 Soil/Water Distribution Coefficient (Kd); Soil Organic/Carbon Partition Coefficients (Koc and Log Kow)	Revised reference hierarchy for organic compounds	Correction	December 2015
2.4.1 Hydrolysis, Biodegradation and Photolysis Half-Lives	Revised reference hierarchy and expand description of half-life data collection procedures	ChemFate reference no longer available; Increase transparency	December 2015
2.5.1 Bioconcentration	Expanded description for collection of BCF data	Increase transparency	December 2015
2.5.2 Octanol/Water Partition Coefficient (Log Kow)	Revised to reflect removal of ChemFate reference	ChemFate reference no longer available	December 2015
2.6.2 LC50 - Freshwater, Saltwater	Expanded description for collection of ecological LC50 data	Increase transparency	December 2015
2.7.3 Maximum Contaminant Levels (MCLs) and Maximum Contaminant Level Goals (MCLGs)	Expanded description for collection of MCLs and MCLGs.	Increase transparency	December 2015
2.8.1 Chemical Formula, Boiling Point and Melting Point	Revised reference hierarchy for inorganic compounds	Correction	December 2015
2.8.3 Density	Revised reference hierarchy for non-inorganic compounds	Correction	December 2015
3.5 Volatilization Half-Life	Revised equations used in calculating volatilization half-lives	Correction of error in derived equations	December 2015
3.7 Soil Water Distribution Coefficient (Kd); Soil	Added definition of volatile compounds	Increase transparency and improve	December 2015

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Organic/Carbon Partition Coefficients (Koc)		consistency across EPA programs	
2.2.1 SF, IUR, RfD and RfC Data Collection	The reference hierarchy for collection of slope factor, inhalation unit risk, reference concentration and reference dose data was modified	Improve consistency across EPA programs	6/2/2014
	Additional language provided to describe the use of ATSDR MRLs based on intermediate exposure scenarios	Increase transparency	6/2/2014
All	Revised to reflect the comprehensive January 2014 SCDM information review and update	Comprehensive review and update to increase consistency across EPA programs	1/30/2014

**SCDM Data Changes**

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<b>Chemical(s)</b>	<b>Data Element(s)</b>	<b>Original Value</b>	<b>Revised Value</b>	<b>Justification</b>	<b>Date of Change</b>
Chromium	IUR (and corresponding human toxicity factory value, screening concentration benchmarks)	-	1.2E-02 (µg/m <sup>3</sup> ) <sup>-1</sup>	Value added to reflect available data	December 2018
Chromium	IUR Source	-	IRIS	Value added to reflect available data	December 2018
Chromium	IUR WOE	-	A	Value added to reflect available data	December 2018
Chromium	IUR WOE Source	-	IRIS	Value added to reflect available data	December 2018
Chromium	Oral Slope Factor (and corresponding human toxicity factory value, screening concentration benchmarks)	-	5.0E-01 (mg/kg/day) <sup>-1</sup>	Value added to reflect available data	December 2018
Chromium	Oral Slope Factor Source	-	CALEPA	Value added to reflect available data	December 2018
Chromium	Oral Slope Factor WOE	-	B	Value added to reflect available data	December 2018
Chromium	Oral Slope Factor WOE Source	-	CALEPA	Value added to reflect available data	December 2018
Chromium	Mutagen (and corresponding screening concentration benchmarks)	No	Yes	Value added to reflect available data	December 2018
Fluorine	MCL	-	4.0E+00 mg/L	Value added to reflect available data	December 2018
Fluorine	Hydrolysis half-life (and corresponding surface water pathway persistence and Ssl Overall Half-life factor values)	6.6E+09	-	Correction	December 2018

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Octachlorodibenzo-p-Dioxin 1,2,3,4,6,7,8,9- (OCDD)	Ground Water and Surface Water Pathway Drinking Water Non-Cancer Risk Screening Concentration	4.67E-05 mg/L	4.0E-05 mg/L	Correction of truncation for reporting	December 2018
Octachlorodibenzo-p-Dioxin 1,2,3,4,6,7,8,9- (OCDD)	Soil Exposure Component Non-Cancer Risk Screening Concentration	1.82E-01 mg/kg	1.0E-01 mg/kg	Correction of truncation for reporting	December 2018
Octachlorodibenzo-p-Dioxin 1,2,3,4,6,7,8,9- (OCDD)	Surface Water Pathway Human Food Chain Non-Cancer Risk Screening Concentration	3.59E-03 mg/kg	3.0E-03 mg/kg	Correction of truncation for reporting	December 2018
Octachlorodibenzo-p-Dioxin 1,2,3,4,6,7,8,9- (OCDD)	Air Pathway Cancer Risk Screening Concentration	2.5E-07 mg/m <sup>3</sup>	2.4E-07 mg/m <sup>3</sup>	Correction of truncation for reporting	December 2018
Octachlorodibenzofuran 1,2,3,4,6,7,8,9-(OCDF)	Ground Water and Surface Water Pathway Drinking Water Non-Cancer Risk Screening Concentration	4.67E-05 mg/L	4.0E-05 mg/L	Correction of truncation for reporting	December 2018
Octachlorodibenzofuran 1,2,3,4,6,7,8,9-(OCDF)	Soil Exposure Component Non-Cancer Risk Screening Concentration	1.82E-01 mg/kg	1.0E-01 mg/kg	Correction of truncation for reporting	December 2018
Octachlorodibenzofuran 1,2,3,4,6,7,8,9-(OCDF)	Surface Water Pathway Human Food Chain Non-Cancer Risk Screening Concentration	3.59E-03 mg/kg	3.0E-03 mg/kg	Correction of truncation for reporting	December 2018
Octachlorodibenzofuran 1,2,3,4,6,7,8,9-(OCDF)	Air Pathway Cancer Risk Screening Concentration	2.5E-07 mg/m <sup>3</sup>	2.4E-07 mg/m <sup>3</sup>	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 1,2,3,7,8-	Ground Water and Surface Water Pathway Drinking Water Non-Cancer Risk Screening Concentration	4.67E-07 mg/L	4.0E-07 mg/L	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 1,2,3,7,8-	Soil Exposure Component Non-Cancer Risk Screening Concentration	1.82E-03 mg/kg	1.0E-03 mg/kg	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 1,2,3,7,8-	Surface Water Pathway Human Food Chain Non-Cancer Risk Screening Concentration	3.59E-05 mg/kg	3.0E-05 mg/kg	Correction of truncation for reporting	December 2018

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Pentachlorodibenzofuran, 1,2,3,7,8-	Air Pathway Cancer Risk Screening Concentration	2.5E-09 mg/m <sup>3</sup>	2.4E-09 mg/m <sup>3</sup>	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 2,3,4,7,8-	Ground Water and Surface Water Pathway Drinking Water Non-Cancer Risk Screening Concentration	4.67E-08 mg/L	4.0E-08 mg/L	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 2,3,4,7,8-	Soil Exposure Component Non-Cancer Risk Screening Concentration	1.82E-04 mg/kg	1.0E-04 mg/kg	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 2,3,4,7,8-	Surface Water Pathway Human Food Chain Non-Cancer Risk Screening Concentration	3.59E-06 mg/kg	3.0E-06 mg/kg	Correction of truncation for reporting	December 2018
Pentachlorodibenzofuran, 2,3,4,7,8-	Air Pathway Cancer Risk Screening Concentration	2.5E-10 mg/m <sup>3</sup>	2.4E-10 mg/m <sup>3</sup>	Correction of truncation for reporting	December 2018
Toxaphene	Oral RfD (and corresponding human toxicity factory value, screening concentration benchmarks)	2.0E-03 mg/kg/day	9.0E-05 mg/kg/day	Value added to reflect available data	December 2018
Toxaphene	Oral RfD Source	ATSDR-Int	PPRTV	Value added to reflect available data	December 2018
Aldrin	FDAAL	2E-02 ppm	3E-01 ppm	Correction	March 2018
Chlordane, alpha-	FDAAL	-	3E-01 ppm	Correction	March 2018
DDD	Oral RfD (and corresponding human toxicity factory value, screening concentration benchmarks)	-	3E-05 mg/kg/day	Value added to reflect available data	March 2018
DDD	Oral RfD Source	-	PPRTV_APPENDIX	Value added to reflect available data	March 2018

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DDD	IUR (and corresponding human toxicity factory value, screening concentration benchmarks)	-	6.9E-05 (µg/m3) <sup>-1</sup>	Value added to reflect available data	March 2018
DDD	IUR Source	-	CALEPA	Value added to reflect available data	March 2018
DDE	FDAAL	5E-02 ppm	5E+00 ppm	Correction	March 2018
DDE	Oral RfD (and corresponding human toxicity factory value, screening concentration benchmarks)	-	3E-04 mg/kg/day	Value added to reflect available data	March 2018
DDE	Oral RfD Source	-	PPRTV_APPENDIX	Value added to reflect available data	March 2018
DDE	IUR (and corresponding human toxicity factory value, screening concentration benchmarks)	-	9.7E-05 (µg/m3) <sup>-1</sup>	Value added to reflect available data	March 2018
DDE	IUR Source	-	CALEPA	Value added to reflect available data	March 2018
DDE	Fresh Ecological LC50	10 µg/L	3.9 µg/L	Value updated to reflect available data	March 2018
DDT	FDAAL	5E-02 ppm	5E+00 ppm	Correction	March 2018
Dieldrin	FDAAL	2E-02 ppm	3E-01 ppm	Correction	March 2018
Heptachlor	FDAAL	1E-02 ppm	3E-01 ppm	Correction	March 2018



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Heptachlor epoxide	FDAAL	1E-02 ppm	3E-01 ppm	Correction	March 2018
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-12 mg/kg/day	7.0E-08 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-12 mg/kg/day	7.0E-08 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-12 mg/kg/day	7.0E-08 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Hexachlorobenzene	FDAAL	5E-02 ppm	-	Correction	March 2018
Hexachlorodibenzofuran, 1,2,3,4,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Hexachlorodibenzofuran, 1,2,3,6,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Hexachlorodibenzofuran, 1,2,3,7,8,9-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Hexachlorodibenzofuran, 2,3,4,6,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018

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Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Lindane (Hexachlorocyclohexane, gamma-)	FDAAL	1E-01 ppm	-	Correction	March 2018
Octachlorodibenzofuran 1,2,3,4,6,7,8,9-(OCDF)	Oral RfD (and corresponding screening concentration benchmarks)	2.0E-13 mg/kg/day	2.3E-06 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Octachlorodibenzo-p-Dioxin 1,2,3,4,6,7,8,9- (OCDD)	Oral RfD (and corresponding screening concentration benchmarks)	2.0E-13 mg/kg/day	2.3E-06 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Pentachlorodibenzofuran, 1,2,3,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	2.0E-11 mg/kg/day	2.3E-08 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Pentachlorodibenzofuran, 2,3,4,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	2.0E-10 mg/kg/day	2.3E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Polychlorinated biphenyls (PCBs)	FDAAL	3E+00 ppm	-	Correction	March 2018
Radon	Distribution Coefficient (and corresponding ground water mobility factor values)	-	0 mL/g	Correction	March 2018
Tetrachlorodibenzofuran, 2,3,7,8-	Oral RfD (and corresponding screening concentration benchmarks)	7.0E-11 mg/kg/day	7.0E-09 mg/kg/day	Value updated to reflect correct application of TEF	March 2018
Tetrachlorodibenzofuran, 2,3,7,8-	Oral Slope Factor (and corresponding screening concentration benchmarks)	1,300 (mg/kg/day) <sup>-1</sup>	13,000 (mg/kg/day) <sup>-1</sup>	Correction	March 2018

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All	Ssl Volatile parameter added to SCDM Web Query output			Address HRS Ssl Addition	August 2017
All	Ssl Hydrolysis parameter added to SCDM Web Query output			Address HRS Ssl Addition	August 2017
All	Ssl Biodegradation parameter added to SCDM Web Query output			Address HRS Ssl Addition	August 2017
All	Ssl Overall half-life parameter added to SCDM Web Query output			Address HRS Ssl Addition	August 2017
All	K <sub>oc</sub> parameter added to SCDM Web Query output			Increase transparency	August 2017
All	K <sub>oc</sub> Equation parameter added to SCDM Web Query output			Increase transparency	August 2017
All	Mutagen parameter added to SCDM Web Query output			Increase transparency	August 2017
All	Biodegradation half-lives, hydrolysis half-lives, and photolysis half-lives		Several values with slight corrections in the final significant digit	Correction of a unit conversion error	August 2017
All	Source for Distrib Coef, Final Photolysis half-lives, and Volatility half-lives when no value is calculated	CALC	-	Correction of a source presentation error	August 2017
All substances for which Oral RfD, RfC, Oral Slope, and IUR are calculated based on RPFs or TEFs	Source for Oral RfD, RfC, Oral Slope, and IUR	RSL_TEF	RPF_PAH_PAH or TEF_DX_EPA	Increase transparency	August 2017

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All PAH substances for which Oral RfD, RfC, Oral Slope, and IUR are calculated based on RPFs or TEFs	Source for Oral Wt-of-Evid and IUR Wt-of-Evid	RSL_TEF	IRIS	Increase transparency	August 2017
Ammonia	RfC (and corresponding human toxicity factory value, Inhal RfD, and screening concentration benchmark)	1.0E-01 mg/m^3	5.0E-01 mg/m^3	Value updated to reflect change in the IRIS reference	August 2017
Alachlor	IUR Wt-of-Evid	-	B2	Reflect available-weight of-evidence	August 2017
Alachlor	IUR Wt-of-Evid Source	-	HEAST	Reflect available-weight of-evidence	August 2017
Aluminum	Salt Ecol LC50	1.2E+02 µg/L	-	Correction	August 2017
Asbestos	Oral Wt-of-Evid	-	A	Reflect available-weight of-evidence	August 2017
Asbestos	Oral Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Atrazine	IUR Wt-of-Evid	-	C	Reflect available-weight of-evidence	August 2017
Atrazine	IUR Wt-of-Evid Source	-	HEAST	Reflect available-weight of-evidence	August 2017
Benzo(a)pyrene	Oral RfD (and corresponding screening concentration benchmarks)	5.0E-04 mg/kg/day	3.0E-04 mg/kg/day	Value updated to reflect change in the IRIS reference	August 2017

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Benzo(a)pyrene	Oral RfD Source	-	IRIS	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	RfC (and corresponding screening concentration benchmarks)	1.0E-05 mg/m <sup>3</sup>	2.0E-06 mg/m <sup>3</sup>	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	RfC Source	-	IRIS	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	Oral Slope (and corresponding screening concentration benchmarks)	7.3 (mg/kg-day) <sup>-1</sup>	1.0 (mg/kg-day) <sup>-1</sup>	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	Oral Wt-of-Evid	B2	A	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	IUR (and corresponding screening concentration benchmarks)	1.8E-03 (µg/m <sup>3</sup> ) <sup>-1</sup>	6.0E-04 (ug/m <sup>3</sup> ) <sup>-1</sup>	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	IUR Source	CALEPA	IRIS	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	IUR Wt-of-Evid	B2	A	Value updated to reflect change in the IRIS reference	August 2017
Benzo(a)pyrene	IUR Wt-of-Evid Source	CALEPA	IRIS	Value updated to reflect change in the IRIS reference	August 2017

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Benz(a)anthracene	Oral Slope (and corresponding human toxicity factor value, screening concentration benchmarks)	7.3E-01 (mg/kg/day)^-1	1.0E-01 (mg/kg/day)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Benz(a)anthracene	IUR (and corresponding human toxicity factor value, screening concentration benchmarks)	1.1E-04 (µg/m3)^-1	6.0E-05 (ug/m^3)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Benzo(k)fluoranthene	Oral Slope (and corresponding human toxicity factor value, screening concentration benchmarks)	7.3E-02 (mg/kg/day)^-1	1.0E-02 (mg/kg/day)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Benzo(k)fluoranthene	IUR (and corresponding human toxicity factor value, screening concentration benchmarks)	1.1E-04 (µg/m3)^-1	6.0E-06 (ug/m^3)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Beryllium	Oral Wt-of-Evid	-	B1	Reflect available-weight of-evidence	August 2017
Beryllium	Oral Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Beryllium	Salt Ecol LC50	8.0E+02 µg/L	-	Correction	August 2017
Bis(2-ethylhexyl) phthalate	IUR Wt-of-Evid	-	B2	Reflect available-weight of-evidence	August 2017
Bis(2-ethylhexyl) phthalate	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017

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Bis(2-ethylhexyl) phthalate	Mutagen (and related screening concentration benchmarks)	Yes (not previously presented in SCDM)	No	Correction	August 2017
Chromium	Inhal ED10 Wgt	-	A	Reflect available-weight of-evidence	August 2017
Chromium	Inhal ED10 Wgt Source	-	SPHEM	Reflect available-weight of-evidence	August 2017
Chromium(III)	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Chromium(III)	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Chromium(VI)	Oral Slope Source, Oral Wt-of-Evid Source	NJDEP	CALEPA	Source updated to reflect available data	August 2017
Chrysene	Oral Slope (and corresponding human toxicity factor value, screening concentration benchmarks)	7.3E-03 (mg/kg/day)^-1	1.0E-03 (mg/kg/day)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Chrysene	IUR (and corresponding human toxicity factor value, screening concentration benchmarks)	1.1E-05 (µg/m3)^-1	6.0E-07 (ug/m^3)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Cyanamide	Mutagen (and related screening concentration benchmarks)	Yes (not previously presented in SCDM)	No	Correction	August 2017

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Cobalt	Oral Wt-of-Evid	-	B	Reflect available-weight of-evidence	August 2017
Cobalt	Oral Wt-of-Evid Source	-	PPRTV	Reflect available-weight of-evidence	August 2017
Cyanide	Oral Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Cyanide	Oral Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
DDD	IUR Wt-of-Evid	-	B2	Reflect available-weight of-evidence	August 2017
DDD	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
DDE	IUR Wt-of-Evid	-	B2	Reflect available-weight of-evidence	August 2017
DDE	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Dibenz(a,h)anthracene	Oral Slope (and corresponding screening concentration benchmarks)	7.3E+00 (mg/kg/day)^-1	1.0E+00 (mg/kg/day)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Dibenz(a,h)anthracene	IUR (and corresponding screening concentration benchmarks)	1.1E-03 (µg/m3)^-1	6.0E-04 (ug/m^3)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017



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1,2-Dichloropropane	RfD (and corresponding screening concentration benchmarks)	9.0E-02 mg/kg/day	4.0E-02 mg/kg/day	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	RfD Source	ATSDR	PPRTV	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	Oral Slope (and corresponding screening concentration benchmarks)	3.6E-02 (mg/kg/day)^-1	3.7E-02 (mg/kg/day)^-1	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	Oral Slope Source	CALEPA	PPRTV	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	IUR (and corresponding screening concentration benchmarks)	1.0E-05 (µg/m3)^-1	3.7E-06 (µg/m3)^-1	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	IUR Source	CALEPA	PPRTV	Value updated to reflect change in the PPRTV reference	August 2017
1,2-Dichloropropane	Fresh Ecol LC50	4.2E+04 µg/L	3.9E+04 µg/L	Value updated to reflect available data	August 2017
1,2-Dichloropropane	Salt Ecol LC50 (and corresponding ecosystem toxicity factor value)	2.6E+04 µg/L	4.9E+03 µg/L	Value updated to reflect available data	August 2017
Ethyl chloride	Biodeg	-	28 days	Value updated to reflect available data	August 2017
Ethyl chloride	Biodeg Source	-	HEDR	Value updated to reflect available data	August 2017

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Ethylene glycol monobutyl ether (EBGE)	Gas (and corresponding Gas Mobility and Gas Migration factor values)	No	Yes	Correction	August 2017
Hexachloroethane	IUR Wt-of-Evid	-	B	Reflect available-weight of-evidence	August 2017
Hexachloroethane	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Hydrogen sulfide	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Hydrogen sulfide	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Indeno(1,2,3-c,d)pyrene	Oral Slope (and corresponding human toxicity factor value, screening concentration benchmarks)	7.3E-01 (mg/kg/day)^-1	1.0E-01 (mg/kg/day)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Indeno(1,2,3-c,d)pyrene	IUR (and corresponding human toxicity factor value, screening concentration benchmarks)	1.1E-04 (µg/m3)^-1	6.0E-05 (ug/m^3)^-1	RPF-generated value updated to reflect new benzo(a)pyrene value	August 2017
Lindane	IUR Wt-of-Evid	NC	D	Correction	August 2017
Lindane	Oral Wt-of-Evid	NC	D	Correction	August 2017
Manganese	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017

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Manganese	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Manganese	Salt Ecol LC50	3.8E+03 µg/L	-	Correction	August 2017
Methylmercury	Gas (and corresponding Gas Mobility and Gas Migration factor values)	No	Yes	Correction	August 2017
Methylmercury	Particulate	Yes	No	Correction	August 2017
2-Methylnaphthalene	Biodeg (lake and river)	8.8 days	3.9 days	Value updated to reflect available data	August 2017
2-Methylnaphthalene	Biodeg (lake and river) Source	EPI_EST	HSDB_EXP	Value updated to reflect available data	August 2017
Naphthalene	Oral Wt-of-Evid	-	C	Reflect available-weight of-evidence	August 2017
Nickel	Oral Wt-of-Evid	-	A	Reflect available-weight of-evidence	August 2017
Nickel	Oral Wt-of-Evid Source	-	CALEPA	Reflect available-weight of-evidence	August 2017
Nitrobenzene	Oral Wt-of-Evid	-	B	Reflect available-weight of-evidence	August 2017
Nitrobenzene	Oral Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017

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Plutonium 241 (+D) (radionuclide)	Oral Wt-of-Evid	-	A	Reflect available-weight of-evidence	August 2017
Plutonium 241 (+D) (radionuclide)	Oral Wt-of-Evid Source	-	HRS	Reflect available-weight of-evidence	August 2017
Selenium	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Selenium	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Silver	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Silver	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Trichlorobenzene, 1,2,4-	IUR Wt-of-Evid	-	B	Reflect available-weight of-evidence	August 2017
Trichlorobenzene, 1,2,4-	IUR Wt-of-Evid Source	-	PPRTV	Reflect available-weight of-evidence	August 2017
Trichloropropane, 1,2,3-	IUR Wt-of-Evid	-	B	Reflect available-weight of-evidence	August 2017
Trichloropropane, 1,2,3-	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
Uranium	RfD (and corresponding screening concentration benchmarks)	3.0E-03 mg/kg/day	2.0E-04 mg/kg/day	Value updated to reflect available data	August 2017

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Uranium	RfD Source	IRIS	ATSDR-Int	Value updated to reflect available data	August 2017
Uranium	Salt Ecol LC50	6.2E+03 µg/L	-	Correction	August 2017
Vanadium	Oral Wt-of-Evid	-	C	Reflect available-weight of-evidence	August 2017
Vanadium	Oral Wt-of-Evid Source	-	PPRTV	Reflect available-weight of-evidence	August 2017
Zinc	IUR Wt-of-Evid	-	D	Reflect available-weight of-evidence	August 2017
Zinc	IUR Wt-of-Evid Source	-	IRIS	Reflect available-weight of-evidence	August 2017
All radionuclides	Radio (radioactive half-life); Oral Slope, Food; Oral Slope, Soil; Oral Slope, Water; Oral Wt-of-Evid; Inhal Slope; Extern. Exp Slope; Lambda; Area Correct (and corresponding factor values and screening concentration benchmarks)		Values recollected from all relevant hierarchy references	Values updated to reflect changes in the OSTRI_PRG reference	June 2016
All	Inhal RfD calculated from RfC; inhalation slope factor calculated from IUR; all screening concentration benchmarks		Values updated to reflect changes in equations in SCDM Methodology to include most current exposure factors	EPA OSWER Directive 9200.1-120 updated guidance on default exposure factors	June 2016
All	Hydrolysis, biodegradation, and photolysis half-lives for lakes and rivers (and corresponding persistence factor values)		Values recollected for all substances	New reference hierarchy	December 2015

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Chemical(s)	Data Element(s)	Original Value	Revised Value	Justification	Date of Change
All	Volatility half-lives for lakes and rivers (and corresponding persistence factor values)		Values updated to reflect correction of volatility half-life equations in SCDM Methodology	Correction of a publication error	December 2015
Asbestos	Oral slope factor (and corresponding screening concentration benchmarks)	1.9E-04 (mg/kg/day)^-1	-	Correction	December 2015
	Oral Wt-of-Evid	A	-	Correction	December 2015
Substances for which MCLG is available	MCLG	-	MCLG value, where available	Correction	December 2015
Radionuclides for which Extern. Exp Slope values are listed	Extern. Exp. Slope (source updated)	-	OSTRI_PRG	Correction	December 2015
Benzo(j,k)fluorene (Fluoranthene)	Oral RfD (source updated)	ATSDR	IRIS	Correction	December 2015
Beryllium	NESHAPS	-	2.8E+04 µg/m3	Present NESHAPS values	December 2015
Bromodichloromethane	RfC (and corresponding Inhal RfD and screening concentration benchmark)	-	2E-02 mg/m^3	Value updated to reflect available data	December 2015
Carbazole	Oral Slope (and corresponding screening concentration benchmarks)	2.0E-02 (mg/kg/day)^-1	-	Value updated to reflect available data	
Chlordane, alpha-	Melting Point	1.7E+02 °C	1.0E+02 °C	Correction	December 2015

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Chloroform	RfC (and corresponding Inhal RfD and screening concentration benchmark)	9.0E-02 mg/m <sup>3</sup>	9.7E-02 mg/m <sup>3</sup>	Correction	December 2015
Chromium(VI)	Oral ED10 Wgt	A	-	Correction	December 2015
Chromium(VI)	Inhal ED10 Wgt (source updated)	EPA_ED10	SPHEM	Correction	December 2015
Chromium(VI)	Oral Wt-of-Evid	-	B2	Correction	December 2015
Dichloroethylene, 1,2- (Mixed Isomers)	Oral RfD (source updated)	HEAST	HEAST_Sub	Clarification	December 2015
Hexachloroethane	All		Values collected for all data elements	Substance added to SCDM	December 2015
Hydrazine	Oral RfD (and corresponding screening concentration benchmarks)	-	9E-04 mg/kg/day	Value updated to reflect available data	December 2015
Lead chromate	All		All values deleted	Substance deleted from SCDM	December 2015
Mercuric chloride	All		Values collected for all data elements	Substance added to SCDM	December 2015
Mercury (elemental)	Oral RfD (and corresponding screening concentration benchmarks)	3.0E-04 mg/kg/day	1.6E-04 mg/kg/day	Use values specific to elemental mercury, where available	December 2015
	Fresh Ecol LC50	4.7E+00 µg/L	4.0E+00 µg/L	Use values specific to elemental mercury,	December 2015

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Chemical(s)	Data Element(s)	Original Value	Revised Value	Justification where available	Date of Change
	Geo Mean Sol	4.8+03 mg/L	3.9E+03 mg/L	Correction	December 2015
Methyl isobutyl ketone	Oral RfD (and corresponding screening concentration benchmarks)	8.0E-02 mg/kg/day	8.0E-01 mg/kg/day	Value updated to reflect availability of data	December 2015
Methylmercury	All		Values collected for all data elements	Substance added to SCDM	December 2015
Nickel	Oral ED10 Wgt	A	-	Correction	December 2015
Nickel	Inhal ED10 Wgt (source updated)	EPA_ED10	SPHEM	Correction	December 2015
Nickel 59	Parent Substance	-	Nickel	Clarification	December 2015
Trichlorofluoromethane	RfC (and corresponding Inhal RfD, screening concentration benchmarks)	7.0E-01 mg/m^3	1.0E+00 mg/m^3	Value updated to reflect availability of data	December 2015
Uranium 238(+D) (radionuclide)	CASRN	024678-82-8	E1734789	CASRN replaced with EPA ID	December 2015
Vanadium	Oral RfD (and corresponding screening concentration benchmarks)	9.0E-03 mg/kg/day	5.0E-03 mg/kg/day		December 2015



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Vinyl chloride	NESHAPS	-	1.0E-02 µg/m <sup>3</sup>	Present NESHAPS values	December 2015
Dichloroethylene, 1,2-trans-	RfC	6.0E-02 mg/m <sup>3</sup>	7.9E-01 mg/m <sup>3</sup>	Value updated to reflect a change in the reference	6/2/2014
	RfC Source	PPRTV	ATSDR-Int	Value updated to reflect a change in the reference	6/2/2014
	Inhal RfD	1.7E-02 mg/kg/day	2.2E-01 mg/kg/day	Value is based on the updated RfC value for this substance	6/2/2014
	Inhal RfD Source	PPRTV	ATSDR-Int	Value is based on the updated RfC source value for this substance	6/2/2014
	Air Pathway Non Cancer Risk	6E-02 mg/m <sup>3</sup>	8E-01 mg/m <sup>3</sup>	Value is based on the updated RfC value for this substance	6/2/2014
Dimethyl phenol, 2,4-	Oral RfD	-	2E-02 mg/kg/day	Correction of a publication error	3/14/2014
	Toxicity (Factor Value)	10	100	Correction of a publication error	3/14/2014
	Ground Water Pathway Non Cancer Risk	-	3E-01 mg/L	Correction of a publication error	3/14/2014

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	Soil Exposure Pathway Non Cancer Risk	-	1E+03 mg/kg	Correction of a publication error	3/14/2014
	Surface Water Pathway Drinking Water Non Cancer Risk	-	3E-01 mg/L	Correction of a publication error	3/14/2014
	Surface Water Pathway Human Foodchain Non Cancer Risk	-	2E+01 mg/kg	Correction of a publication error	3/14/2014
	RfC	6.0E-01 mg/m <sup>3</sup>	-	Correction of a publication error	3/14/2014
	Inhal RfD	1.7E-01 mg/kg/day	-	Correction of a publication error	3/14/2014
	Air Pathway Non Cancer Risk	6E-01 mg/m <sup>3</sup>	-	Correction of a publication error	3/14/2014
Nitrosodimethylamine, N-	Oral Wt-of-Evid	-	B2	Correction of a publication error	3/14/2014
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-(TCDD)	Surface Water Pathway Human Foodchain Non Cancer Risk	-	9E-07 mg/kg	Correction of a publication error	3/14/2014
All chemicals	All			Comprehensive review and update to increase consistency across EPA programs	1/30/2014