

CAS	Chemical	Type of Observation	VOC	Mutagenic	GIABS	ABS _a	C _{sat} (mg/kg)	RF _{D₂} (mg/kg-day)	k _e y	RF _{C₁} (mg/m ³)	k _e y	SFO (mg/kg-day) [†]	k _e y	IUR (mg/m ³) [†]	k _e y	Resident Soil (mg/kg)	k _e y	Industrial Soil (mg/kg)	k _e y	Resident Air (ug/m ³)	k _e y	Industrial Air (ug/m ³)	k _e y	Tapwater (ug/L)	k _e y	MCL (ug/L)	Risk-based SSL (mg/kg)	k _e y	MCL-based SSL (mg/kg)	
30560-19-1	Acephate	Spring 2021				1	0.1	1.20E-03	O							7.60E+00	n	9.80E+01	n					2.40E+00	n		5.30E-04	n		
30560-19-1	Acephate	Fall 2021				1	0.1	3.00E-04	O							1.90E+00	n	2.50E+01	n					6.00E+01	n		1.30E-04	n		
67-64-1	Acetone	Spring 2021	V			1		1.10E+05	I	3.10E+01	A					6.10E+03	n	6.70E+04	n	3.20E+03	n	1.40E+04	n	1.40E+03	n		2.90E+03	n		
67-64-1	Acetone	Fall 2021	V			1		1.10E+05	I							7.00E+03	n	1.10E+05	nm					1.80E+03	n		3.70E+01	n		
79-10-7	Acrylic Acid	Spring 2021	V			1		1.10E+05	I	1.00E-03	I					9.90E+00	n	4.20E+01	n	1.00E-01	n	4.40E-01	n	2.10E-01	n		4.20E-05	n		
79-10-7	Acrylic Acid	Fall 2021	V			1		1.10E+05	I	2.00E-04	P					2.00E+00	n	8.30E+00	n	2.10E-02	n	8.80E-02	n	2.10E-02	n		8.50E-06	n		
107-13-1	Acrylonitrile	Spring 2021	V			1		1.10E+04	I	2.00E-03	A	5.40E-01	I	6.80E-05	I	2.50E-01	c**	1.10E+00	c**	4.10E-02	c**	1.80E-01	c**	5.20E-02	c**		1.10E-05	c**		
107-13-1	Acrylonitrile	Fall 2021	V			1		1.10E+04	I	2.00E-03	I	5.40E-01	I	6.80E-05	I	2.50E-01	c**	1.10E+00	c**	4.10E-02	c**	1.80E-01	c**	5.20E-02	c**		1.10E-05	c**		
107-18-6	Allyl Alcohol	Spring 2021	V			1		1.10E+05	I	1.00E-04	X					3.50E-01	n	1.50E+00	n	1.00E-02	n	4.40E-02	n	2.10E-02	n		4.20E-06	n		
107-18-6	Allyl Alcohol	Fall 2021	V			1		1.10E+05	I	1.00E-04	X					3.50E-01	n	1.50E+00	n	1.00E-02	n	4.40E-02	n	2.10E-02	n		4.20E-06	n		
1912-24-9	Atrazine	Spring 2021				1	0.1	3.50E-02	I			2.30E-01	C			2.40E+00	c*	1.00E+01	c					3.00E-01	c	3	2.00E-04	c	1.90E-03	
1912-24-9	Atrazine	Fall 2021				1	0.1	3.00E-03	A			2.30E-01	C			2.40E+00	c**	1.00E+01	c*					3.00E-01	c*	3	2.00E-04	c*	1.90E-03	
107-04-0	Bromo-2-chloroethane, 1-	Spring 2021	V			1		2.40E+03	X			2.00E+00	X	6.00E-04	X	2.60E-02	c	1.10E-01	c	4.70E-03	c	2.00E-02	c	7.40E-03	c		2.10E-06	c		
107-04-0	Bromo-2-chloroethane, 1-	Fall 2021	V			1		2.40E+03	X	6.00E-05	X					3.50E-02	n	1.50E-01	n	6.30E-03	n	2.60E-02	n	1.20E-02	n		3.30E-06	n		
75-27-4	Bromodichloromethane	Spring 2021	V			1		9.30E+02	I	2.00E-02	X	6.20E-02	I	3.70E-05	C	2.90E-01	c	1.30E+00	c	7.60E-02	c	3.30E-01	c	1.30E-01	c	8.0E+01(G)	3.60E-05	c	2.20E-02	
75-27-4	Bromodichloromethane	Fall 2021	V			1		9.30E+02	I	8.00E-03	X	6.20E-02	I	3.70E-05	C	2.90E-01	c	1.30E+00	c	7.60E-02	c	3.30E-01	c	1.30E-01	c	8.0E+01(G)	3.60E-05	c	2.20E-02	
7440-43-9	Cadmium (Diet)	Spring 2021				2.5	0.001	1.00E-03	I	1.00E-05	A			1.80E-03	I	7.10E+00	n	9.80E+01	n	1.00E-03	n	4.40E-03	n							
7440-43-9	Cadmium (Diet)	Fall 2021				2.5	0.001	1.00E-04	A	1.00E-05	A			1.80E-03	I	7.10E+00	n	1.00E+01	n	1.00E-03	n	4.40E-03	n							
7440-43-9	Cadmium (Water)	Spring 2021				0.05	0.001	5.00E-04	I	1.00E-05	A			1.80E-03	I					1.00E-03	n	4.40E-03	n	9.20E-01	n	5	6.90E-02	n	3.80E-01	
7440-43-9	Cadmium (Water)	Fall 2021				0.05	0.001	1.00E-04	A	1.00E-05	A			1.80E-03	I					1.00E-03	n	4.40E-03	n	1.80E-01	n	5	1.40E-02	n	3.80E-01	
106-47-8	Chloroaniline, p-	Spring 2021				1	0.1	4.00E-03	I			2.00E-01	P			2.70E+00	c**	1.10E+01	c*					3.70E-01	c*		1.60E-04	c*		
106-47-8	Chloroaniline, p-	Fall 2021				1	0.1	5.00E-04	P			2.00E-01	P			2.70E+00	c**	1.10E+01	c**					3.70E-01	c**		1.60E-04	c**		
101-21-3	Chlorpropham	Spring 2021				1	0.1	-3.50E-03	X							3.20E+02	n	4.10E+03	n					7.10E+01	n		6.40E-02	n		
101-21-3	Chlorpropham	Fall 2021				1	0.1	5.00E-03	O							3.20E+01	n	4.10E+02	n					7.10E+00	n		6.40E-03	n		
106-44-5	Cresol, p-	Spring 2021				1	0.1	1.00E-01	A	6.00E-01	C					6.30E+02	n	8.20E+03	n	6.30E+01	n	2.60E+02	n	1.90E+02	n		1.50E-01	n		
106-44-5	Cresol, p-	Fall 2021				1	0.1	2.00E-02	P	6.00E-01	C					1.30E+02	n	1.60E+03	n	6.30E+01	n	2.60E+02	n	3.70E+01	n		3.00E-02	n		
52315-07-8	Cypermethrin	Spring 2021				1	0.1	6.00E-02	O							3.80E+02	n	4.90E+03	n					1.20E+02	n		1.90E+01	n		
52315-07-8	Cypermethrin	Fall 2021				1	0.1	7.20E-02	O							4.50E+02	n	5.90E+03	n					1.40E+02	n		2.30E+01	n		
110-80-5	Ethoxyethanol, 2-	Spring 2021	V			1		1.10E+05	I	9.00E-02	P	2.00E-01	I			5.20E+02	n	4.70E+03	n	2.10E+01	n	8.80E+01	n	3.40E+01	n		6.80E-03	n		
110-80-5	Ethoxyethanol, 2-	Fall 2021	V			1		1.10E+05	I	9.00E-02	P	4.00E-02	P			2.60E+02	n	1.50E+03	n	4.20E+00	n	1.80E+01	n	8.00E+00	n		1.60E-03	n		
141-78-6	Ethyl Acetate	Spring 2021	V			1		1.10E+04	I	9.00E-01	I	7.00E-02	P			-2.60E+02	n	-3.20E+03	n	-1.70E+01	n	-7.00E+01	n	-2.60E+01	n		-5.20E-03	n		
141-78-6	Ethyl Acetate	Fall 2021	V			1		1.10E+04	I	7.00E-01	P	7.00E-02	P			6.20E+01	n	2.60E+02	n	7.30E+00	n	3.10E+01	n	1.40E+01	n		3.10E-03	n		
75-00-3	Ethyl Chloride (Chloroethane)	Spring 2021	V			1		2.10E+03	X	1.00E+01	I					1.40E+03	n	5.70E+03	ns	1.00E+03	n	4.40E+03	n	2.10E+03	n		5.90E-01	n		
75-00-3	Ethyl Chloride (Chloroethane)	Fall 2021	V			1		2.10E+03	X	4.00E+00	P					5.40E+02	n	2.30E+03	ns	4.00E+02	n	1.80E+03	n	8.30E+02	n		2.40E-01	n		
100-41-4	Ethylbenzene	Spring 2021	V			1		4.80E+02	I	1.00E-01	I	1.10E-02	C	2.50E-06	C	5.80E+00	c*	2.50E+01	c*	1.10E+00	c*	4.90E+00	c*	1.50E+00	c*	700	1.70E-03	c*	7.80E-01	
100-41-4	Ethylbenzene	Fall 2021	V			1		4.80E+02	I	5.00E-02	P	1.00E+00	I	1.10E-02	C	5.80E+00	c*	2.50E+01	c*	1.10E+00	c*	4.90E+00	c*	1.50E+00	c*	700	1.70E-03	c*	7.80E-01	
107-21-1	Ethylene Glycol	Spring 2021				1	0.1	2.00E+00	I	4.00E-01	C					1.30E+04	n	1.60E+05	nm	4.20E+01	n	1.80E+02	n	4.00E+03	n		8.10E-01	n		
107-21-1	Ethylene Glycol	Fall 2021				1	0.1	8.00E-01	A	4.00E-01	C					5.10E+03	n	6.60E+04	n	4.20E+01	n	1.80E+02	n	1.60E+03	n		3.20E-01	n		
72178-02-0	Fomesafen	Spring 2021				1	0.1	2.60E-03	O							1.60E+01	n	2.10E+02	n					4.80E+00	n		1.60E-02	n		
72178-02-0	Fomesafen	Fall 2021				1	0.1	1.00E-02	O							6.30E+01	n	8.20E+02	n					1.90E+01	n		6.30E-02	n		
76-44-8	Heptachlor	Spring 2021	V			1		5.00E-04	I			4.50E+00	I	1.30E-03	I	1.30E-01	c*	6.30E-01	c*	2.20E-03	c	9.40E-03	c	1.40E-03	c*	4	1.20E-04	c*	3.30E-02	
76-44-8	Heptachlor	Fall 2021	V			1		1.00E-04	A			4.50E+00	I	1.30E-03	I	1.30E-01	c**	6.30E-01	c*	2.20E-03	c	9.40E-03	c	1.40E-03	c*	4	1.20E-04	c*	3.30E-02	
118-74-1	Hexachlorobenzene	Spring 2021	V			1		8.00E-04	I			1.60E+00	I	4.60E-04	I	2.10E-01	c*	9.60E-01	c**	6.10E-03	c	2.70E-02	c	9.80E-03	c	1	1.20E-04	c	1.30E-02	
118-74-1	Hexachlorobenzene	Fall 2021	V			1		1.00E-05	P			1.60E+00	I	4.60E-04	I	7.80E-02	n	9.60E-01	c**	6.10E-03	c	2.70E-02	c	9.80E-03	c**	1	1.20E-04	c**	1.30E-02	
58-89-9	Hexachlorocyclohexane, Gamma- (Lindane)	Spring 2021				1	0.04	3.00E-04	I			1.10E+00	C	3.10E-04	C	5.70E-01	c**	2.50E+00	c	9.10E-03	c	4.00E-02	c	4.20E-02	c					

CAS	Chemical	Type of Observation	VOC	Mutagenic	GIABS	ABS _a	C _{sat} (mg/kg)	RD ₅₀ (mg/kg-day)	k _e y	RfC ₁ (mg/m ³)	k _e y	SFO (mg/kg-day) [†]	k _e y	IUR (mg/m ³) [†]	k _e y	Resident Soil (mg/kg)	k _e y	Industrial Soil (mg/kg)	k _e y	Resident Air (ug/m ³)	k _e y	Industrial Air (ug/m ³)	k _e y	Tapwater (ug/L)	k _e y	MCL (ug/L)	Risk-based SSL (mg/kg)	k _e y	MCL-based SSL (mg/kg)		
1313-99-1	Nickel Oxide	Spring 2021			0.04			1.10E-02	C	2.00E-05	C	9.10E-01	C	2.60E-04	C	7.60E-01	c	3.60E+00	c	2.10E-03	n	8.80E-03	n	7.60E-02	c						
1313-99-1	Nickel Oxide	Fall 2021			0.04			1.10E-02	C	2.00E-05	C	9.10E-01	C	2.60E-04	C	8.40E+01	n	1.20E+03	n	2.10E-03	n	8.80E-03	n	2.00E+01	n						
	Nickel Oxide	Change Effect											X			8.30E+01	X..	1.20E+03	X..					2.00E+01	X..						
E715532	Nickel Refinery Dust	Spring 2021			0.04			1.10E-02	C	1.40E-05	C	9.10E-01	C	2.40E-04	I	7.60E-01	c	3.60E+00	c	1.50E-03	n	6.10E-03	n	8.30E-02	c		1.30E-02	c			
E715532	Nickel Refinery Dust	Fall 2021			0.04			1.10E-02	C	1.40E-05	C	9.10E-01	C	2.40E-04	I	8.20E+01	n	1.10E+03	n	1.50E-03	n	6.10E-03	n	2.20E+01	n		3.20E+00	n			
	Nickel Refinery Dust	Change Effect											X			8.10E+01	X..	1.10E+03	X..					2.20E+01	X..		3.20E+00	X..			
27314-13-2	Norflurazon	Spring 2021			1	0.1		1.50E-02	O							9.50E+01	n	1.20E+03	n					2.90E+01	n		1.90E-01	n			
27314-13-2	Norflurazon	Fall 2021			1	0.1		1.50E-03	O							9.50E+00	n	1.20E+02	n					2.90E+00	n		1.90E-02	n			
	Norflurazon	Change Effect						-1.40E-02	O							-9.60E+01	n	-1.10E+03	n					-2.80E+01	n		-1.70E-01	n			
19044-88-3	Oryzalin	Spring 2021			1	0.1		1.40E-01	O			7.80E-03	O			7.00E+01	c*	2.90E+02	c*					7.90E+00	c*		1.50E-02	c*			
19044-88-3	Oryzalin	Fall 2021			1	0.1		1.90E-01	O			7.80E-03	O			7.00E+01	c*	2.90E+02	c*					7.90E+00	c*		1.50E-02	c*			
	Oryzalin	Change Effect						5.00E-02	O																						
42874-03-3	Oxyfluorfen	Spring 2021			1	0.1		3.00E-02	O			7.30E-02	O			7.40E+00	c*	3.10E+01	c*					5.40E-01	c*		4.30E-02	c*			
42874-03-3	Oxyfluorfen	Fall 2021			1	0.1		4.00E-02	O			7.30E-02	O			7.40E+00	c*	3.10E+01	c*					5.40E-01	c*		4.30E-02	c*			
	Oxyfluorfen	Change Effect						1.00E-02	O										X												
78-11-5	Pentaerythritol tetranitrate (PETN)	Spring 2021			1	0.1		2.00E-03	P			4.00E-03	X			1.30E+01	n	1.60E+02	n					3.90E+00	n		5.80E-03	n			
78-11-5	Pentaerythritol tetranitrate (PETN)	Fall 2021			1	0.1		9.00E-03	P			4.30E-03	X			5.70E+01	n	5.30E+02	c**					1.70E+01	n		2.60E-02	n			
	Pentaerythritol tetranitrate (PETN)	Change Effect						7.00E-03	P			3.00E-04				4.40E+01	nm	3.70E+02	XXX								2.00E-02				
7664-38-2	Phosphoric Acid	Spring 2021			1			4.90E+01	P	1.00E-02	I					3.00E+05	nm	2.90E+06	nm	1.00E+00	n	4.40E+00	n	9.70E+04	n						
7664-38-2	Phosphoric Acid	Fall 2021			1			4.90E+01	P	1.00E-02	I					1.40E+06	nm	6.00E+06	nm	1.00E+00	n	4.40E+00	n								
	Phosphoric Acid	Change Effect											X			1.10E+06	nm	5.70E+06	nm												
29232-93-7	Phosphos, Methyl	Spring 2021			1	0.1		7.00E-05	O							4.40E-01	n	5.70E+00	n								8.50E-02	n		8.10E-05	n
29232-93-7	Pirimphos, Methyl	Fall 2021			1	0.1		7.30E-04	O							4.60E+00	nm	6.00E+01	n					8.90E-01	n		8.40E-04	n			
	Pirimphos, Methyl	Change Effect						6.60E-04	O							4.20E+00	nm	5.40E+01	n					8.10E-01	n		7.60E-04	n			
95-94-3	Tetrachlorobenzene, 1,2,4,5-	Spring 2021	V		1			3.00E-04	I							2.30E+00	n	3.50E+01	n					1.70E-01	n		7.90E-04	n			
95-94-3	Tetrachlorobenzene, 1,2,4,5-	Fall 2021	V		1			3.00E-05	P							2.30E-01	n	3.50E+00	n					1.70E-02	n		7.90E-05	n			
	Tetrachlorobenzene, 1,2,4,5-	Change Effect						-2.70E-04	X							-2.10E+00	nm	-3.20E+01	nm					-1.50E-01	n		-7.10E-04	n			
23564-05-8	Thiophanate, Methyl	Spring 2021			1	0.1		2.70E-02	O			1.20E-02	O			4.70E+01	c**	2.00E+02	c*					6.70E+00	c**		5.70E-03	c**			
23564-05-8	Thiophanate, Methyl	Fall 2021			1	0.1		1.60E-01	O			1.20E-02	O			4.70E+01	c*	2.00E+02	c*					6.70E+00	c*		5.70E-03	c*			
	Thiophanate, Methyl	Change Effect						1.30E-01	O							.X									.X						
78-48-8	Tribufos	Spring 2021			1	0.1		1.00E-04	O							6.30E-01	n	8.20E+00	n					2.80E-02	n		1.40E-04	n			
78-48-8	Tribufos	Fall 2021			1	0.1		2.00E-04	O							1.30E+00	n	1.60E+01	n					5.70E-02	n		2.80E-04	n			
	Tribufos	Change Effect						1.00E-04	O							6.70E-01	nm	7.80E+00	nm					2.90E-02	n		1.40E-04	n			
75-01-4	Vinyl Chloride	Spring 2021	V	M	1		3.90E+03	3.00E-03	I	1.00E-01	I	7.20E-01	I	4.40E-06	I	5.90E-02	c	1.70E+00	c*	1.70E-01	c*	2.80E+00	c*	1.90E-02	c	2	6.50E-06	c	6.90E-04		
75-01-4	Vinyl Chloride	Fall 2021	V	M	1		3.90E+03	3.00E-03	I	8.00E-02	A	7.20E-01	I	4.40E-06	I	5.90E-02	c	1.70E+00	c*	1.70E-01	c*	2.80E+00	c*	1.90E-02	c	2	6.50E-06	c	6.90E-04		
	Vinyl Chloride	Change Effect						-2.00E-02	X																						
95-47-6	Xylene, o-	Spring 2021	V		1		4.30E+02	2.00E-01	G	1.00E-01	G					6.50E+01	n	2.80E+02	n	1.00E+01	n	4.40E+01	n	1.90E+01	n		1.90E-02	n			
95-47-6	Xylene, o-	Fall 2021	V		1		4.30E+02	2.00E-01	G	1.00E-01	G					6.40E+01	n	2.80E+02	n	1.00E+01	n	4.40E+01	n	1.90E+01	n		1.90E-02	n			
	Xylene, o-	Change Effect						-1.00E+00	O																						
13776-88-0	-Aluminum metaphosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
68333-79-9	-Ammonium polyphosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7790-76-3	-Calcium pyrophosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7783-28-0	-Diammonium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7757-93-9	-Dicalcium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7782-75-4	-Dimagnesium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7758-11-4	-Dipotassium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7558-79-4	-Disodium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
13530-50-2	-Monoaluminum phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7722-76-1	-Monoammonium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7758-23-8	-Monocalcium phosphate	Spring 2021			1			4.90E+01	P							3.80E+05	nm	5.70E+06	nm					9.70E+04	n						
7757-86-0	-Monomagnesium phosphate	Spring 2021			1			4.90E+01	P							3.80															