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Chemicals of High Concern. 2015 Triennial Update. Appendix II

Maine Center for Disease Control and Prevention

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List of Chemicals of High Concern		Toxicity										Exposure																		
CAS	Chemical	NTP_REP	GHS cat 1A repro	EU_END1	NTP_ROC	IRIS_86A	IRIS_96	GHS cat 1 cancer	EU carcinogen 1A	IARC_1	WA_PBT with review	CAN_PBIT with review	Biomonitoring	Indoor air and dust	Danish EPA	Dutch (NL) Reports	German FEA	ESIS_RAR	HSDB_NLM	EPA Inventory Use (IUR)	HPD_NLM	ChAMP child exp	SPIN	2012 TSCA Work Plan Consumer Products	Peer Reviewed Journals	VCCEP	Released into air	Ingested by child	Applied to skin	
71-43-2	Benzene				✓	✓	✓	✓	✓	✓			8	9	6		✓	✓		✓	11		✓			✓	✓			
75-01-4	Vinyl chloride				✓	✓	✓	✓	✓	✓					1					✓			✓	✓						
79-94-7	Tetrabromobisphenol A										✓		2	1	1		✓	✓		✓										
84-61-7	Dicyclohexyl phthalate; DCHP			✓									1	4						✓										
91-59-8	2-Naphthylamine				✓			✓	✓	✓					1															
92-69-3	4-Hydroxybiphenyl			✓									2																	
92-87-5*	Benzidine and its salts				✓	✓		✓	✓	✓					1															
94-13-3	Propyl paraben			✓									4	6	1			✓		>400		✓						✓	✓	
94-26-8	Butyl paraben			✓									3	1	6	1				65		✓		1					✓	
95-53-4	2-Aminotoluene									✓					3													✓		
99-76-3	Methyl paraben			✓									4	1	10	2		✓		>400		✓		1					✓	
99-96-7	p-Hydroxybenzoic acid			✓											1	1												✓		
100-42-5	Styrene			✓									4	6	11	1	✓		✓	14		✓	✓				✓			
101-14-4	4,4'-Methylenebis(2-Chloroaniline)									✓					1									✓						
106-89-8	Epichlorohydrin			✓											1								✓							
106-93-4	1,2-Dibromoethane			✓															✓						✓					
106-99-0	1,3-Butadiene				✓			✓	✓	✓			1	3	1					✓	4	✓								
108-88-3	Toluene	✓											7	7	19		✓	✓		✓	>400	✓				✓	✓		✓	
118-74-1	Hexachlorobenzene	✓	✓										7																	
120-47-8	Ethyl paraben			✓									3	1	6	1				75		✓		1					✓	
131-55-5	2,2',4,4'-tetrahydroxybenzophenone, BP-2			✓											1					73									✓	
131-56-6	2,4-Dihydroxybenzophenone			✓														✓		25				1						
131-70-4	Mono-n-butylphthalate			✓									5		2															
140-66-9	1,1,3,3-Tetramethyl-4-butylphenol			✓									4	1	1									✓				✓		

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556-67-2	Octamethylcyclotetrasiloxane		✓											1	4				✓	✓	26		✓	✓	1		✓		✓	
608-93-5	Benzene, pentachloro-		✓										2																	
1163-19-5	2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether; BDE-209										✓		1	2	2			✓		✓						✓				
1634-04-4	Methyl tert-butyl ether; MTBE		✓										4	4						✓										
1763-23-1*	Perfluorooctane sulfonic acid (PFOS) and its salts										✓		5	3	1										2					
1806-26-4	Phenol, 4-octyl-		✓											1		1									1			✓		
5466-77-3	2-ethyl-hexyl-4-methoxycinnamate		✓												1				✓		109									✓
14808-60-7	Silica, crystalline (in the form of quartz or cristobalite dust)				✓			✓		✓										✓	>400		✓	✓						✓
25013-16-5	Butylated hydroxyanisole		✓																✓		41		✓							✓
25637-99-4	Hexabromocyclododecane										✓		1	2				✓	✓									✓		
27193-28-8	(1,1,3,3-tetramethylbutyl)-phenol		✓													1														
N/A	Nickel compounds				✓					✓			5	2	9		✓			✓	3			✓	1					

Note: Please see text for further description of data sources and evaluation process.

* CAS numbers are specific for the parent chemical, but the CHC listing includes both the parent chemical and parent chemical-related salt compounds.

Legend

✓ Found to be present Numbers represent number of peer-reviewed literature sources or number of times found in a database

Toxicology Data Sources

NTP_REP National Toxicology Program Evaluation for the Risks to Human Reproduction: Serious Concern or Concern for adverse reproductive or developmental effects in humans

GSH cat 1A repro Global Harmonization System: Category 1A - Known human reproductive toxicant

EU_END1 EU Endocrine Disruptor Program: Category 1 - probable

NTP_ROC NTP Report on Carcinogens: Known to be a human carcinogen

IRIS_86A EPA Integrated Risk Information System: 1986 criteria - Category A, Known human carcinogen

IRIS 96 EPA Integrated Risk Information System: 1996 criteria - Known human carcinogen

GHS category 1A cancer Global Harmonization System: Category 1A - Known human carcinogen

EU carcinogen 1A European Union Carcinogen List: Category 1A - Known human carcinogen

IARC_1 IARC: Group 1 - Carcinogenic to humans

WA_PBT with review Washington State PBT list: present on list and independent MECDC toxicity review

CAN_PBIT with review Health Canada PBIT list: present on list and independent MECDC toxicity review

Exposure Studies

Biomonitoring Identified as present in human tissue by biomonitoring studies identified by a Pubmed search, numbers refer to number of studies in which chemical was identified.

Indoor air and dust Identified as present in indoor air or dust by Pubmed search, numbers refer to number of studies in which chemical was identified.

Consumer Product Data

Danish EPA Identified as present in consumer products by the Danish EPA

Dutch reports Identified as present in consumer products by the Dutch government

German Federal Environment Agency Identified as present in consumer products by the German government

ESIS Risk Assessment Report EU or other authoritative risk assessment indicating use in consumer products

HSDB_NLM Listed in National Library of Medicine Hazardous Substances Database

EPA_Inventory Use Report EPA Inventory Use and Reporting database indicating use in consumer products

HPD_NLM household products Household Products Database, National Library of Medicine used in consumer products

SPIN Substances in Products in Nordic Countries Database

TSCA Work Plan Chemicals Toxic Substances Control Act

Peer Reviewed Journals Peer Reviewed Journals

VCCEP Voluntary Children's Chemical Evaluation Program

ChAMP child exp EPA ChAMP program indicating potential exposure to children

Released into air Potential release into air based on properties of chemical

Ingested by child Potential ingestion, mouthing, or sucking by child based on product type

Applied to skin Product is applied to skin