

APPENDIX 1

Health Hazards of Chemicals of High Concern (CoHCs) in Plastics Production

Chemical / CAS #	Adverse Health Effects / why CoHC	Red List
Acetone/67-64-1	Potential reproductive harm	German Occupational Health Commission (MAK)
Acrylonitrile/107-13-1	Probable human carcinogen	Chemicals Known to the State to Cause Cancer or Reproductive Toxicity, Safe Drinking Water and Toxic Enforcement Act Of 1986 (California Prop 65)
1,3-Butadiene/ 106-99-0	IARC Group 1 Carcinogen; reproductive toxicant; acute organ toxicity, NIOSH occupational health hazard	California Prop 65; International Agency for Research on Cancer (IARC); MAK, US Centers for Disease Control, National Institute for Occupational Safety and Health Carcinogen List (CDC/NIOSH)
Benzene/71-43-2	IARC Group 1 Carcinogen; reproductive toxicant; acute organ toxicity, NIOSH occupational health hazard; potential endocrine disruptor	California Prop 65; CDC/NIOSH; IARC; MAK; Endocrine Disruption Exchange (TEDX)
Bisphenol A/80-05-7	Reproductive toxicant/Suspected reproductive toxicant; endocrine disruptor	US Dept. of Health & Human Services Reports & Monographs on Reproductive & Developmental Toxicity; MAK; European Commission Endocrine Disruption Priority List
Cumene/98-82-8	IARC Group 2B possible human carcinogen	IARC; California Prop 65; MAK
Ethylene dichloride/ 107-06-2	IARC Group 2B possible human carcinogen; NIOSH occupational carcinogen	IARC; California Prop 65; CDC/NIOSH; MAK; US Dept. of Health and Human Services 12 th Report on Carcinogens
Ethylene glycol/ 107-21-1	Developmental toxicant; occupational neurotoxicant	MAK; US Dept. of Health & Human Services Reports & Monographs on Reproductive & Developmental Toxicity
Ethylbenzene/100-41-4	IARC Group 2B possible human carcinogen	California Prop 65; IARC
Methanol/67-56-1	Developmental toxicant	MAK; US Dept. of Health & Human Services Reports & Monographs on Reproductive & Developmental Toxicity
p-tert-butylphenol/ 98-54-4	Possible skin sensitizer	European Commission Risk Phrases - R43, H317
p-Xylene/106-42-3	Reproductive harm; systemic organ toxicity	US Environmental Protection Agency (EPA), Toxic Substances Control Act (TSCA) criteria
Phenol/108-95-2	Reproductive toxicant; suspected of causing genetic defects; mutagen	Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Category 1B; European Commission Mutagen Category 2
Styrene/100-42-5	IARC 2B Possible carcinogen; Suspected reproductive toxicant (GHS 1B); potential endocrine disruptor	MAK; IARC; TEDX; US Dept. of Health & Human Services 12th Report on Carcinogens; US EPA TSCA criteria
Vinyl acetate/108-05-4	IARC 2B: possible human carcinogen; germ cell mutagen, GHS Category 2; potential endocrine disruptor	IARC; GHS; TEDX
Vinyl chloride monomer/ 75-01-4	IARC 1B: known human carcinogen; germ cell mutagenicity, GHS Category 2; potential mammary carcinogen	California Prop 65; CDC/ NIOSH; IARC; US Dept. of Health & Human Services 12th Report on Carcinogens; Silent Spring Institute Mammary Carcinogens