

APPENDIX H:

Chemicals of Concern: Construction Interiors

What is this resource?

Tool to identify chemicals of concern during the design and construction of project interiors.

Where is this resource used?

Design, construction and procurement related to construction interiors.

Who is this resource for?

Anyone involved in the design and management of construction interiors, or in the procurement or recommendation of construction-related materials for healthcare facilities.

Why is this resource important?

A chemical of concern is one that, through credible evidence, has a risk of adverse health effects to people or the environment. Many are synthetic substances that have not been tested for health and environmental impacts. Health and environmental risks include:

- Carcinogen
- Endocrine disruption (EDC)
- Reproductive/development/neurological dysfunction
- Skin and respiratory sensitivity (S&R)
- Persistent, bio accumulative and toxic (PBT)

What is the goal of this resource?

- Avoid bringing chemicals of concern into our health care facilities.
- Increase awareness of the environmental and health impacts of materials and products that are used in our healthcare facilities.
- Disclose of any materials or products that contain chemicals of concern
- Create opportunities to measure the presence of chemicals of concern within our healthcare facilities.

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CONSTRUCTION CATEGORY	CHEMICAL OF CONCERN
METAL PRODUCTS AND FINISHING <i>Solder, sheet and pipe, bearing metals, casting and type metal</i>	Alkylphenols
	Lead (Pb)
	Antimony (trioxide)
INSULATION <i>Wall insulation, sound insulation, fiber glass insulation, foam insulation</i>	Asbestos
	Chloroprene (Neoprene)
	Formaldehyde
	Halogenated Flame Retardants (HFRs)
	Polyurethane
	Volatile Organic Compounds (VOCs)
FLOORING <i>Vinyl, laminate, tile, carpet, carpet backing, wood flooring finishes</i>	Asbestos
	Bisphenol A (BPA)
	Formaldehyde
	Halogenated Flame Retardants (HFRs)
	Perfluorinated chemicals or compounds (PFCs) PFAS / PFOAs
	Phthalates
	Polyvinyl chloride (PVC)
	Polyurethane
	Volatile Organic Compounds (VOCs)
	Chlorinated Tris
	Triclosan
SEALING AND FINISHING TREATMENTS <i>Glues, gaskets, geomembranes, caulking</i>	Alkylphenols
	Antimony (trioxide)
	Chloroprene (Neoprene)
	Formaldehyde
	Glutaraldehyde
	Polybrominated diphenyl ethers (PBDEs)
	Polyvinyl chloride (PVC)

CONSTRUCTION CATEGORY	CHEMICAL OF CONCERN
	Polyurethane
	Volatile Organic Compounds (VOCs)
	Triclosan
PAINT <i>Paint, paint thinner</i>	Alkylphenols
	Asbestos
	Bisphenol A (BPA)
	Lead (pb)
	Chromium VI
	Formaldehyde
	Glutaraldehyde
	Polyurethane
	Triclosan
	Volatile Organic Compounds (VOCs)
	Toluene
	Pentachlorophenol
	Asbestos
ROOFING <i>roof membranes, geomembrane, ceiling tiles</i>	Lead (Pb)
	Chlorinated Polyethylene and Chlorosulfonated Polyethylene
	Polyvinyl chloride (PVC)
	Volatile Organic Compounds (VOCs)
	Triclosan
	Bisphenol A (BPA)
PLUMBING <i>pipes</i>	Lead (Pb)
	Polyvinyl chloride (PVC)
	Triclosan
ELECTRICAL <i>electrical shielding/ sheaths, switches, conduit, thermostats, lightbulbs</i>	Lead (Pb)
	Mercury
	Chlorinated Polyethylene and Chlorosulfonated Polyethylene
	Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs)
	Polyvinyl chloride (PVC)
PLASTICS <i>adhesives, rubber, corner guards, wall coverings</i>	Antimony (trioxide)
	Chloroprene (neoprene)
	Polyvinyl chloride (PVC)
	Polyurethane
	Triclosan

CONSTRUCTION CATEGORY	CHEMICAL OF CONCERN
FOAM <i>molded foam</i>	Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs)
	Chloroprene (Neoprene)
WOOD PRODUCTS <i>Hardwood, veneer core composite wood: particle board, plywood and fiberboard, finishing treatments, wood preservatives, laminate</i>	Formaldehyde
	Volatile Organic Compounds (VOCs)
	Creosote
	Arsenic
	Pentachlorophenol
	Organotin compounds ex. tributyltin (TBT), dibutyltin (DBT)
	Triclosan