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Occupational exposure to endocrine-disrupting chemicals and the risk of uveal melanoma [1]

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[1] Appendix: The European Study Group on Occupational Causes of Rare Cancers and Table A

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The European Study Group on Occupational Causes of Rare Cancers

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Supplementary table A. Exposure to potential endocrine-disrupting chemicals (EDC) as solicited in job-specific questionnaires (JSQ). Grouping by agent. [PCB= polychlorinated biphenyls; PVC= polyvinyl chloride.]

Industry / job area	Exposure or activity	Agent (according to JSQ)	Group assignment
Dentistry	Epoxy resins Amalgams	Bisphenol A	Bisphenol A
Cooking	Cleaning of stoves	Not specified	Alkylphenols
Dry cleaning	Perchloroethylene Trichloroethylene Freon	Perchlorethylene Trichloroethylene Freon	Organic solvents
Metal industry	Production of cadmium, lead, copper	Cadmium, lead, copper	Heavy metals
Foundries	Melting and casting with copper or lead Hardening - with phenolformaldehyde - with furanic resins Exposure to hardeners containing resins	Copper, lead Phenolic / furanic resins	Heavy metals Synthetic resins
Electro-plating	Coating with cadmium, lead, or copper Trichloroethylene, Perchloroethylene, Freon	Cadmium, lead, copper Trichloroethylene, Perchloroethylene, Freon	Heavy metals Organic solvents
Wood working	Treatment of wood with - Chlorophenol - Arsenic- chrome- or copper-based salts - Tar-based oils / coal tar Lacquering with - Polyurethane - Trichloroethylene	 Chlorophenol Arsenic-, chrome-, copper-salts Coal tar Polyurethane Trichloroethylene	 Chlorophenol Heavy metals Polyaromatic hydro-carbons (PAH) Phthalates Organic solvents
Paper and pulp production	Bleaching Slime-inhibiting agents [chlorophenol, PCB, dimethylformamide (DMF)] Solvents for cleaning Coating with synthetic resins	Not specified Chlorophenol, PCB Trichloroethylene, Toluol, Xylol, etc. Not specified	Alkylphenols Chlorophenol Organic solvents Synthetic resins
Textile industry	Trichloroethylene	Not specified Not specified Trichloroethylene, Tetrachlorocarbon	Alkylphenols Synthetic resins Organic solvents

Continued

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Industry / job area	Exposure or activity	Agent (according to JSQ)	Group assignment
Tanneries	Disinfection using		
	- Chlorophenol	Chlorophenol	Chlorophenol
	- Arsenic compounds	Arsenic	Heavy metals
	- Trichloroethylene	Trichloroethylene	Organic solvents
	Impregnation with polyurethane	Polyurethane	Phthalates
Slaughtering and meat processing	Meat wrapping in plastic foils	Not specified	Phthalates
Shoe and leather production	PVC, Polyurethane	PVC, Polyurethane	Phthalates
	Polystyrene	Polystyrene	Impregnation agents
	Impregnation agents	Not specified	
Electro-technics	Repairing transformers	Transformer oils	PCB
	Use of transformer oils with potential PCB content	PCB	PCB
	Use of trichloroethylene/ perchloroethylene	Trichloroethylene / perchloroethylene	Organic solvent
	Cables with rubber	Phenylphenol	Phenylphenol
	Cables with epoxy resins	Epoxy resins	Bisphenol A
	Cables with PVC	PVC	Phthalates
Welding and soldering	Welding with copper, lead	Copper, lead	Heavy metals
	Metal parts coated with coal tar products	Coal tar	PAH
	Cleaning with tri- or perchloroethylene	Trichloroethylene, Perchloroethylene	Organic solvents
Glass industry	Contact to lead or arsenic compounds	Lead, arsenic	Heavy metals
Rubber and tyre industry	Vulcanizing/ treatment of rubber compositions	Rubber	Phenylphenol
	Flame retardants	Anti-flaming agents	Brominated flame retardants
	Oils	Not specified	PCB
Plastic industry	PVC, Polyurethane, Polystyrene	PVC, Polyurethane, Polystyrene	Phthalates
	Phenolic resins	Phenolic resins	Synthetic resins
	Epoxy resins	Epoxy resins	Bisphenol A
	Mixing of color pigments to polymers using cadmium/lead	Cadmium, lead pigments	Heavy metals
	Mixing of softeners	Softeners	Phthalates
	Cleaning with styrene	Styrene	Organic solvents
Painting and lacquering	Use of paints/lacquers		
	- with epoxy	Epoxy	Bisphenol A
	- with polyurethane	Polyurethane	Phthalates
	- with nitro cellulose	Nitro cellulose	Synthetic resins
	Cleaning using trichloroethylene	Trichloroethylene	Organic solvents
	Rust-proofing paint with lead	Lead	Heavy metals
Color production	Polyurethane	Polyurethane	Phthalates
	Epoxy resins	Epoxy resins	Bisphenol A
	Lead, cadmium pigments	Lead, cadmium	Heavy metals
	Chlorinated solvents, glycol ethers	Trichloroethylene,	Organic solvents
	Coal tar-based products	Glycol ethers	PAH
		Coal tar	