

Table II-1. Occupational exposure limits based on biological monitoring

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	Assay				Year of
Substance	mate-	Parameter	OEL-B	Sampling time	pro-
	rial				posal
Acetone	urine	Acetone	40 mg/l	Within 2 h prior to end of shift	'01
2-Butoxyethanol and	urine	Butoxyacetic acid	200 mg/g·Cr	End of shift	,08
2-Butoxyethyl acetate					
Cadmium and its compounds	blood	Cadmium	5 μg/ <i>l</i>	Not critical	'21
	urine	Cadmium	5 μg/g·Cr	Not critical	'21
Carbon disulfide	urine	2-Thiothiazolidine-	0.5 mg/g·Cr	End of shift (Avoid sizable	'15
		4-carboxylic acid		intake of brassica vegetables)	
Cobalt and inorganic compounds	blood	Cobalt	3 μg/ <i>l</i>	Within 2 h prior to end of shift	'05
(Except cobalt oxides)				at end of work week	
	urine	Cobalt	35 μg/ <i>l</i>	Within 2 h prior to end of shift	'05
CLL		4 (21.1	120 / 0	at end of work week	,,,,
Chlorobenzene	urine	4-Chlorocatechol	120 mg/g⋅Cr	End of shift	,08
2.22 Diablam 4.42 diaminadiaha		(hydrolysis) total MBOCA	50 ug/g Cn	End of shift at end of	,94
3,3'-Dichloro-4,4'-diaminodiphe- nyl-methane (MBOCA)	urine	total MBOCA	50 μg/g·Cr	workweek	94
Dichloromethane	urine	Dichloromethane	0.2 mg/l	End of shift	,05
Ethylbenzene	urine	Mandelic acid	150 mg/g·Cr	End of shift	,21
Emylochizene	urine	Mandelic acid+	200 mg/g·Cr	End of shift at end of	,21
	urnic	Phenylglyoxylic acid	200 mg/g Ci	workweek	
	urine	Ethylbenzene	15 μg/ <i>l</i>	End of shift	,21
Hexane	urine	2,5-Hexanedione	3 mg/g·Cr	End of shift at end of	,94
		2,5 110.10.10.10	(After acid hydrolysis)	workweek	'
	urine	2,5-Hexanedione	0.3 mg/g·Cr	End of shift at end of	,94
		,	(Without acid hydrolysis)		
Indium and compounds	serum	Indium	$3 \mu g/l$	Not critical	'07
Lead and compounds	blood	Lead	15 μg/100 m <i>l</i>	Not critical	'13
(Except alkyl lead compounds)	blood	Protoporphyrin	200 μg/100 m <i>l</i> ·RBC	Not critical	'94
			80 μg/100 m <i>l</i> ·blood	(After one month or more	'94
				since consecutive exposure)	
	urine	δ-Aminolevulinic acid	5 mg/ <i>l</i>	Not critical	'94
				(After one month or more	
				since consecutive exposure)	
Mercury and compounds	urine	total inorganic	35 μg/g·Cr	Not critical	'93
(Except alkyl mercury compounds)	1	mercury	20 //	F 1 6 1:6	110
Methanol	urine	Methanol	20 mg/l	End of shift	'10
Methylethylketone	urine	Methylethylketone	5 mg/l	End of shift or a few hours after high exposure	'06
Methyl isobutyl ketone	urine	Methyl isobutyl	1.7 mg/l	End of shift	,07
Welliyi isobutyi ketone	urme	ketone	1.7 mg/t	End of shift	07
Phenol	urine	Phenol	250 mg/g·Cr	End of shift	,08
Polychlorobiphenyls (PCBs)	blood	total PCB	250 mg/g Cr 25 μg/l	Not critical	,06
Styrene Styrene	urine	Styrene	$20 \mu g/l^{\dagger}$	End of shift at end of	,22
Signate	arme	Styrene	20 μg//	workweek	
	urine	Mandelic acid +	160 mg/g⋅Cr [†]	End of shift at end of	,22
		Phenylglyoxylic acid		workweek	
Tetrahydrofuran	urine	Tetrahydrofuran	2 mg/l	End of shift	('15)
Toluene	blood	Toluene	0.6 mg/l	Within 2 h prior to end of	,99
	urine	Toluene	0.06 mg/l	shift at end of work week	'99
Trichloroethylene	urine	Trichloroacetic acid	$10 \text{ mg/}l^{\dagger}$	End of shift at end of	'22
	blood	Trichloroethylene	Semi-quantitative [†]	workweek End of shift at end of	,22
			1	workweek	
	end-	Trichloroethylene	Semi-quantitative [†]	End of shift at end of	,22
	exhaled		, î	workweek	
V-1	air	4-4-1 (900 //	Full California 1 C	,,,,
Xylene	urine	total (o-, m-, p-)	800 mg/l	End of shift at end of	'06
		methylhippuric acid		work week	

^{†:} Provisional

See the JSOH website for brief summary of OEL documentation at https://www.sanei.or.jp/english/oels/index.html