

OCCUPATIONAL EXPOSURE VALUES

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SUBSTANCE CAS#	ACGIH® TLVs®		OSHA PELs		NIOSH RELs		DFG MAKs		AIHA & OARS WEELs		CARCINOGENICITY CATEGORY
	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	PEAK/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	
Isopropyl oil (residue of Isopropyl alcohol production)											IARC-3 MAK-3B
4-Isopropylphenyl isocyanate 31027-31-3								Sh			
N-Isopropyl-N'-phenyl- p-phenylenediamine 101-72-4							2 I	II (2)			
							Sh; C				
Isosafrole 120-58-1											IARC-3
Isoxaben 82558-50-7											EPA-C
Jacobine 6870-67-3											IARC-3
Kaolin 1332-58-7	2 R		15*; 5**		10*; 5**						MAK-3B* TLV-A4 *Quartz content must be considered separately
	E		*Total dust **Respirable fraction		*Total dust **Respirable fraction						
Kempferol 520-18-3											IARC-3
Kerosene/Jet fuels as total hydrocarbon vapor 8008-20-6; 64742-81-0	200				100						IARC-3* TLV-A3 *Jet fuels only
	Skin; P				Kerosene only						

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	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	PEAK/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	
Lead chromate 7758-97-6	0.0002 I*	0.0005 I*									EPA*-A**; TLV-A1 D***; CBD**; K** NTP-K* *as Cr(VI) **inhalation ***oral
Lead chromate oxide 18454-12-1								See Chromium(VI) inorganic compounds, insoluble			
Lead phosphate 7446-27-7	See Lead and inorganic compounds, as Pb		0.05								EPA-B2 IARC-2A NTP-R TLV-A3
Levofuraltadone (5-[Morpholinomethyl]- 3-[(5-nitrofurfurylidene) amino]-2-oxazolidinone)											IARC-2B
Light Green SF 5141-20-8											IARC-3
D-Limonene 5989-27-5							5 28	II (4)			IARC-3
DL-Limonene 138-86-3								Skin; Sh; C and similar mixtures Sh	30		

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		
CAS#	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	
L-Limonene (β-Limonene) 5989-54-8														Sh							
Lindane (γ-Hexachloro-cyclohexane) 58-89-9	0.5				0.5				0.5				0.1 I	II (8)						IARC-1 MAK-4 *and other HCH isomers	
Linuron 330-55-2																				EPA-C	
Lithium [7439-93-2] compounds, inorganic, as Li, except of Li and highly irritating lithium compounds (as lithium amide, hydride, hydroxide, nitride, oxide, tetrahydroaluminate, tetrahydroborate)													0.2 I	I (1)							
Lithium hydride 7580-67-8			C 0.05 I		0.025				0.025												
Lithium hydroxide 1310-65-2																		C 1			
Lithium oxide 12057-24-8																		C 1			

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		
CAS#	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	
L.P.G. (Liquefied petroleum gas) 68476-85-7			See Appendix F in TLVs® and BEIs® book (D, EX)		1000	1800			1000	1800											
Luteoskyrin 21884-44-6																			IARC-3		
Magenta 632-99-5																			IARC-1*; 2B *production		
Magnesite 546-93-0			TLV® withdrawn due to insufficient data		15*; 5**			10*; 5**													
					*Total dust	**Respirable fraction		*Total dust	**Respirable fraction												
Magnesium oxide 1309-48-4	10 I				15*	Fume						4 I 0.3 R*		II (8)				MAK -4* TLV-A4 *respirable fraction			
							*Total particulate						*multiplied with the material density C								
Magnesium oxide sulfate, fibrous dust 12286-12-3																			MAK-3B		
Malathion 121-75-5	1 IFV				15*			10					15 I	II (4)						IARC-3 TLV-A4	
	Skin; BEI _C				*Total dust	Skin		Skin				D									
Maleic anhydride 108-31-6	0.0025*	0.01*			0.25	1			0.25	1			0.02	0.081*	I (1) C 0.05 C 0.2				TLV-A4		
	*IFV												*can also occur as vapor and aerosol Sah; C								
Maleic hydrazide 123-33-1																			IARC-3		

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	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	PEAK/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	
Malonaldehyde 542-78-9					See Pocket Guide Apps. A and C						IARC-3 NIOSH-Ca
Malononitrile 109-77-3					3	8					
Mancozeb 8018-01-7									1		
									DSEN		
Manganese [7439-96-5] and inorganic compounds, as Mn	0.02 R 0.1 I			C 5	1	3	0.2 I 0.02 R *Permanganates only C	II (8) II (1)*			EPA-D TLV-A4
Manganese, fume, as Mn 7439-96-5	0.02 R 0.1 I			C 5	1	3	0.2 I 0.02 R C	II (8)			EPA-D
Manganese cyclopenta- dienyl tricarbonyl, as Mn 12079-65-1	0.1 Skin			C 5	0.1	Skin	0.2 I 0.02 R C	II (8)			
Manganous ethylenebis- (dithiocarbamate) (Maneb) 12427-38-2								Sh			IARC-3
Mannomustine dihydrochloride 551-74-6											IARC-3
Mate, absolute (Tea oil) 68916-96-1											IARC-3

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	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	TWA ppm	PEAK/CEIL(C) mg/m ³	TWA ppm	STEL/CEIL(C) mg/m ³	
Medphalan 13045-94-8											IARC-3
Medroxyprogesterone acetate 71-58-9											IARC-2B
Melamine 108-78-1									3*		IARC-2B
									*OARS WEEL		
Melphalan 148-82-3											IARC-1 NTP-K
Menthol, raw, natural, synthetic 89-78-1; 1490-04-6; 2216-51-5; 15356-70-4									1*	6.4*	3* 19.2*
									*OARS WEEL		
Merbromin 129-16-8											
								Sh			
2-Mercaptobenzo-thiazole 149-30-4								4 I 1.5 R Sh; C	5		IARC-2A MAK-3B
									Skin; DSEN		
Mercaptoethanol 60-24-2									0.2		
									Skin		
6-Mercaptopurine 50-44-2											IARC-3

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	TWA ppm		STEL/CEIL(C) mg/m ³		TWA ppm		STEL/CEIL(C) mg/m ³		TWA ppm		STEL/CEIL(C) mg/m ³		TWA ppm		PEAK/CEIL(C) mg/m ³		TWA ppm		STEL/CEIL(C) mg/m ³		
Mercuric chloride 7487-94-7																				EPA-C	
Mercury, alkyl compounds, as Hg	0.01		0.03		0.01		C 0.04		0.01		0.03									MAK-3B	
	Skin								Skin				Skin; Sh								
Mercury, aryl compounds, as Hg 7439-97-6	0.1				0.1		See OSHA standard interpretation memo				C 0.1									MAK-3B	
	Skin								Skin				Skin; Sh								
Mercury, elemental and inorganic compounds, as Hg 7439-97-6	0.025				0.1		See OSHA standard interpretation memo		0.05*		C 0.1		0.02 I		II (8)					EPA-D IARC-3 MAK-3B TLV-A4	
	Skin; BEI								*Vapor Skin				Skin; Sh; D								
Merphalan 531-76-0																				IARC-2B	
Mesityl oxide 141-79-7	15	60	25	100	25	100			10	40			2	8.1	I (2)						
													Skin; D								
Metabisulfites 23134-05-6																				IARC-3	
Metal-working fluids (capable of yielding nitrosamines)																				MAK-3B	
Methacrylic acid 79-41-4	20	70							20	70			50	180	I (2)						
									Skin				C								

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)			
CAS#	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³		
Methane																						
74-82-8	See Appendix F in <i>TLVs® and BEIs®</i> book (D, EX)																					
Methanol (Methyl alcohol)	200	262	250	328	200	260			200	260	250	325	100	130	II (2)							
67-56-1	Skin; BEI								Skin				Skin; C									
Methenamin 3-chlor-allylchloride													2 I releases Formaldehyde		II (2)							
4080-31-3													Sh; B									
Methidathion																				EPA-C		
950-37-8																						
Methimazole																				IARC-3		
60-56-0																						
Methomyl	0.2 IFV								2.5											TLV-A4		
16752-77-5	Skin; BEI _C																					
Methotrexate																				IARC-3		
59-05-2																						
Methoxyacetic acid													1	3.7	II (2)							
625-45-6													Skin; B									
Methoxychlor	10				15*								1 I		II (8)					EPA-D IARC-3 NIOSH-Ca TLV-A4		
72-43-5					*Total dust				See Pocket Guide App. A				Skin; B									

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		
CAS#	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	
2-Methoxyethanol (EGME) 109-86-4	0.1	0.3			25	80			0.1	0.3			1* *sum of the concentrations of EGME and its acetate in air Skin; B	3.2	II (8)				Skin; B		
2-Methoxyethyl acetate (EGMEA) 110-49-6	0.1	0.5			25	120			0.1	0.5			1* *sum of the concentrations of EGME and its acetate in air Skin; B	4.9	II (8)				Skin; B		
Methoxyflurane 76-38-0											C 2* *60-min; for exposure to waste anesthetic gases	C 13.5*									
(2-Methoxymethyl-ethoxy)propanol (DPGME) 34590-94-8	(100) NIC-50	(606) NIC-303	(150) NIC-100	(909) NIC-606 includes: 13429-07-7; 13588-28-8; 55956-21-3	100	600			100	600	150	900	50	310	I (1)						
4-Methoxyphenol 150-76-5		5								5											
1-Methoxy-2-propanol (Propylene glycol monomethyl ether; PGME) 107-98-2	50	184	100	369					100	360	150	540	100	370	I (2)					TLV-A4	
2-Methoxy-1-propanol (Propylene glycol 2-methyl ether) 1589-47-5													5	19	I (2)						
1-Methoxypropyl-2-acetate (Propylene glycol mono-methyl ether acetate) 108-65-6													50	270	I (1)		50				

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		
CAS#	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	
2-Methoxypropyl-1-acetate (Propylene glycol 2-methyl ether-1-acetate) 70657-70-4													5	27		I (2)					
													Skin; B								
3-Methoxypropylamine 5332-73-0																	5		15		
5-Methoxypsoralen 484-20-8																				IARC-2A	
8-Methoxypsoralen (Methoxsalen) plus ultra-violet A radiation 298-81-7																				IARC-1 NTP-K	
Methyl acetate 79-20-9	200	606	250	757	200	610			200	610	250	760	100	310		I (4)					
													C								
Methylacetylene (Propyne) 74-99-7	1000*	1640*			1000	1650			1000	1650											
	*(EX)																				
Methylacetylene-propadiene mixture (MAPP) 59355-75-8	1000*	1640*	1250*	2050*	1000	1800			1000	1800	1250	2250									
	*(EX)																				
Methyl acrylate (Acrylic acid, methyl ester) 96-33-3	2	7			10	35			10	35			2	7.1		I (2)				EPA-D IARC-3 TLV-A4	
	Skin; DSEN				Skin				Skin				Skin; Sh; C								
Methylacrylonitrile 126-98-7	1	2.7							1	3										TLV-A4	
	Skin								Skin												