

SUBSTANCE CAS#	ACGIH® TLVs®				OSHA PELs				NIOSH RELs				DFG MAKs				AIHA & OARS WEELs				CARCINOGENICITY CATEGORY
	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	PEAK/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	
Isopropyl methyl phosphonic acid (IMPA) 1832-54-8																					EPA-D
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

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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	
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						
Ketene 463-51-4		C 0.05	0.5	0.9	0.5	0.9	1.5	3			
Kevlar 49 (p-Aramid fibrils) 24938-64-5											IARC-3
Kojic acid 501-30-4											IARC-3
Lasiocarpine 303-34-4											IARC-2B
Lauric acid 143-07-7								2 I* *can also occur as vapor and aerosol D	I (2)		MAK-3A
Lauroyl peroxide 105-74-8											IARC-3
Lead [7439-92-1] and inorganic compounds, as Pb	0.05		0.05		0.05*						EPA-B2 IARC-2A*; 2B MAK-2 *inorganic compounds
	BEI		including organic Lead soaps See 29 CFR 1910.1025		*8-hr TWA excluding Lead arsenate See Pocket Guide App. C		except Lead arsenate and Lead chromate; as Inhalable fraction 3A				
Lead, organic compounds			for organic Lead soaps, see Lead and inorganic compounds, as Pb								IARC-3

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	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	PEAK/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	
Lead arsenate 3687-31-8	TLV® withdrawn due to insufficient data				0.01* *as As See 29 CFR 1910.1018				See Arsenic and inorganic compounds				as As Skin; 3A								EPA-B2 IARC-1; 2A MAK-1 NTP-R OSHA-Ca
Lead chromate 7758-97-6	0.0002 I* *as Cr(VI) DSEN; RSEN		0.0005 I*						See Chromium(VI) inorganic compounds, insoluble				See Chromium(VI) inorganic compounds, insoluble								EPA*-A**; D***; CBD**; K** NTP-K* TLV-A1 *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 See 29 CFR 1910.1025				See Lead and inorganic compounds												EPA-B2 IARC-2A NTP-R TLV-A3
Levofuraltadone (5-[Morpholinomethyl]-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone) 3795-88-8																					IARC-2B
Light Green SF 5141-20-8																					IARC-3
D-Limonene 5989-27-5													5 28 Skin; Sh; C		II (4)						IARC-3

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	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	PEAK/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	
DL-Limonene 138-86-3															and similar mixtures Sh		30				
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 NTP-R* TLV-A3
Linuron 330-55-2		Skin				Skin				Skin				Skin; C							EPA-C
Lithium [7439-93-2] compounds, inorganic, as Li, except of Li and highly irritating lith- ium compounds (as lith- ium amide, hydride, hydroxide, nitride, oxide, tetrahydroalum- inate, tetrahydro- borate)													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		

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	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		
	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	
Lithium oxide 12057-24-8																				C 1	
L.P.G. (Liquefied petro- leum gas) 68476-85-7	See Appendix F in <i>TLVs® and BEIs®</i> 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*								4 I 0.3 R*		II (8)						MAK -4* TLV-A4 *respirable fraction
					Fume								*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				D								
Maleic anhydride 108-31-6	0.0025* *IFV	0.01*			0.25	1			0.25	1			0.02	0.081*	I (1) C 0.05 C 0.2						TLV-A4
	DSEN; RSEN												*can also occur as vapor and aerosol Sah; 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	
Maleic hydrazide																				IARC-3	
123-33-1																					
Malonaldehyde																				IARC-3 NIOSH-Ca	
542-78-9									See Pocket Guide Apps. A and C												
Malononitrile									3	8											
109-77-3																					
Mancozeb																	1				
8018-01-7																	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	0.02 R 0.1 I						C 5		1		3		0.2 I 0.02 R C		II (8)					EPA-D	
7439-96-5																					
Manganese cyclopenta- dienyl tricarbonyl, as Mn	0.1						C 5		0.1				0.2 I 0.02 R C		II (8)						
12079-65-1		Skin								Skin											
Manganous ethylenebis- (dithiocarbamate)																				IARC-3	
(Maneb) 12427-38-2													Sh								
Mannomustine dihydrochloride																				IARC-3	
551-74-6																					

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	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	PEAK/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	
Mate, absolute (Tea oil) 68916-96-1																					IARC-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																					
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				

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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	
6-Mercaptopurine																				IARC-3	
50-44-2																					
Mercuric chloride																				EPA-C	
7487-94-7																					
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	0.1				0.1						C 0.1									MAK-3B	
7439-97-6	Skin				See OSHA standard interpretation memo				Skin				Skin; Sh								
Mercury, elemental and inorganic compounds, as Hg	0.025				0.1				0.05*		C 0.1		0.02 I		II (8)					EPA-D IARC-3 MAK-3B TLV-A4	
7439-97-6	Skin; BEI				See OSHA standard interpretation memo				*Vapor Skin				Skin; Sh; D								
Merphalan																				IARC-2B	
531-76-0																					
Mesityl oxide	15	60	25	100	25	100			10	40			2	8.1		I (2)					
141-79-7													Skin; D								
Metabisulfites																				IARC-3	
23134-05-6																					
Metal-working fluids (capable of yielding nitrosamines)																				MAK-3B	

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	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	PEAK/CEIL(C) ppm	mg/m ³	TWA ppm	mg/m ³	STEL/CEIL(C) ppm	mg/m ³	
Methacrylic acid 79-41-4	20	70							20	70		Skin	50	180	I (2)						
Methane 74-82-8	See Appendix F in TLVs® and BEIs® book (D, EX)																				
Methanol (Methyl alcohol) 67-56-1	200	262	250	328	200	260			200	260	250	325	100	130	II (2)						
	Skin; BEI								Skin				Skin; C								
Methenamin 3-chlor-allylchloride 4080-31-3													2 I		II (2)						
													releases Formaldehyde Sh; B								
Methidathion 950-37-8																					EPA-C
Methimazole 60-56-0																					IARC-3
Methomyl 16752-77-5	0.2 IFV								2.5												TLV-A4
	Skin; BEI _C																				
Methotrexate 59-05-2																					IARC-3
Methoxyacetic acid 625-45-6													1	3.7	II (2)						
													Skin; B								

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CAS#	TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		STEL/CEIL(C)		TWA		PEAK/CEIL(C)		TWA		STEL/CEIL(C)		CATEGORY
	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	
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								
2-Methoxyethanol (EGME) 109-86-4	0.1	0.3			25	80			0.1	0.3			1*	3.2	II (8) *sum of the concentrations of EGME and its acetate in air Skin; B				Skin; B		
2-Methoxyethyl acetate (EGMEA) 110-49-6	0.1	0.5			25	120			0.1	0.5			1*	4.9	II (8) *sum of the concentrations of EGME and its acetate in air Skin; B				Skin; B		
Methoxyflurane											C 2* C 13.5*										
76-38-0									*60-min; for exposure to waste anesthetic gases												
Methoxytridecafluoro- heptene isomers (MPHE)																	200				
4-Methoxyphenol	5								5												
150-76-5																					
1-Methoxy-2-propanol (Propylene glycol monomethyl ether; PGME) 107-98-2	50	184	100	369					100	360	150	540	100	370	I (2) C						
2-Methoxy-1-propanol (Propylene glycol 2-methyl ether) 1589-47-5													5	19	I (2) Skin; B						TLV-A4
1-Methoxypropyl-2-acetate (Propylene glycol mono- methyl ether acetate) 108-65-6													50	270	I (1) C		50				

