

# USER GUIDE FOR BREATHING APPARATUS FILTER FOR POLLUTING SUBSTANCES

OEL  
OCCUPATIONAL EXPOSURE LIMIT

### TWA

TIME WEIGHTED AVERAGE

Average Exposure limit over an 8 hour time period



### STEL

SHORT TERM EXPOSURE LIMIT

Should not be longer than 15 minutes

Should not occur more than 4 times per day with at least

60 minutes between exposures



Substances	Chemical formula	n° cas	Plywood filter	Particle filter	MC/DM*	OEL	Unit of measurement
1-chloro-2,3-epoxy-propane	C3H5OCl	106-89-8	A	P3	MC	VLE=2	ppm
1,1,1-Trifluoro-2-bromo-2-chloroethane	CF3CBrCl	151-67-7			ARI or A AIR	2,000	ppm
1,1,2,2-tetrabromoethane	CHBr2CBr2	79-27-6	A	P3	MC	1	ppm
1,1'-Ethylene-2,2'-bipyridylum dibromide	C12H12N2Br2	85-00-7	P3	MC	MC	0,50	mg/m3
1,2,3,4,5,6,7,8-octachloronaphthalene	C10Cl8	2234-13-1	A	P3	MC	0	mg/m3
1,2,4-Trichlorobenzene	C6H3Cl3	120-82-1	A	P3	MC	5,00	ppm
1,2,4-Benzenetricarboxylic anhydride	C9H4O5	552-30-7	A	P3	MC	0,04	mg/m3
1,2-Benzenedicarboxylic anhydride	C6H4(CO)2O	85-44-9	P3	MC	MC	1,00	ppm
1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate	(CH3O)2P(O)(O)CBr2CBrCl	300-76-5	A	P3	MC	3,00	mg/m3
1,2-Dichloroethane	C1H2Cl2O	107-06-2	A		MC	10,00	ppm
1,2-Dihydroxybenzene	C6H4(OH)2	120-80-9	A	P3	MC	5	mg/m3
1,2-Ethanediamine	NH2CH2CH2NH2	107-15-3	K		MC	10,00	ppm
1,2-ethanediol	HOCH2CH2OH	107-21-1	A	P3	MC	50,00	ppm
1,3-butadiene	CH2=CHCH=CH2	106-99-0	AX		MC	VLE=1	ppm
1,4-dichlorobenzene	C6H4 Cl2	106-46-7	A		MC	75,00	ppm
1,4-benzenediamine	C6H4(NH2)2	106-50-3	A	P3	MC	0	mg/m3
1,4-dihydroxybenzene	C6H4(OH)2	123-31-9	A	P3	MC	2	mg/m3
1,4-dinitrobenzene	C6H4(NO2)2	100-25-4	A	P3	DM or MC	1,000	mg/m3
1,5-dicyanatonaphthalene	C10H6(NC)2	3173-72-6	A2B2	P3	MC	0,10	mg/m3
1,5-pentanedial	OCH(CH2)3CHO	111-30-8	A2	P3	MC	0,20	ppm
1,6-hexanolactam	C6H11NO	105-60-2	A	P3	MC	0,22	ppm
1-Chloro-2-methylbenzene	C10H6ClCH3	95-49-8	A		MC	50,00	ppm
1-Chloro-2-propene	CH2=CHCH2Cl	107-05-1	AX		MC	1,00	ppm
1-Hydroxybutane	CH3CH2CH2CH2OH	71-36-3	A		MC	50,00	ppm
1-Methoxy-2-propanol	CH3OCH2CHCH3	107-98-2	A		MC	100	ppm
1-Methylpropyl acetate	CH3COO(CH2)3CH3	105-46-4	A	P3	DM or MC	200	ppm
1-Propen-3-ol	CH2=CHCH2OH	107-18-6	A		MC	2	ppm
1-Propyn-3-ol	C3H3OH	107-19-7	A		MC	1	ppm
2-butoxyethanol	C4H9OCH2CH2OH	111-76-2	A	P3	MC	25,00	ppm
2-Diethylaminoethanol	(C2H5)2NCH2CH2OH	100-37-8	K		MC	10,00	ppm
2-ethoxyethyl acetate	CH3COOCH2CH2OCH2CH3	111-15-9	A		MC	1	ppm
2-ethylhexyl chloroformate	Cl C7 O2 H12	24468-13-1	A	P3	DM or MC	1	ppm
2-furaldehyde	C5H4O2	98-01-1	A		MC	2,00	ppm
2-Methoxyethyl acetate	CH3COOCH2CH2OCH3	110-49-6	A		MC	0	ppm
2-Methylaziridine	C3H7N	75-55-8	K	P3	MC	2,00	ppm
2-methylpentane-2,4-diol	(CH3)2C(OH)CH2CH(OH)CH3	107-41-5	A		DM or MC	25	ppm
2-nitronaphthalene	C10H7NO2	581-89-5	A	P	DM or MC		
2-Pyridylamine	NH2C5H4N	504-29-0	A	P3	DM or MC	2	mg/m3
2,2'-Diaminodiphenylamine	NH2CH2CH2NH	111-40-0	ABEK	P3	MC	1,00	ppm
2,2'-dihydroxydiphenylamine	(HO)CH2CH2NH	111-42-2	K	P3	MC	3	ppm
2,2-Dichlorovinyl dimethyl phosphate	(CH3O)2P(O)(O)CH=CCl2	62-73-7	A	P3	MC	0,10	ppm
2,3-epoxypropyl isopropyl ether	C6H12O2	4016-14-2	A		MC	50	ppm
2,3,4,5,6-pentachlorophenol	C6Cl5OH	87-86-5	A	P3	MC	1	mg/m3
2,3-Dihydro-2,2-dimethyl-7-benzofuranil							
2,4-dichlorophenoxyacetic acid	Cl2C6H3OCH2COOH	94-75-7	P3		MC	10	mg/m3
2,4,5-Trichlorophenoxyacetic acid	Cl3C6H2OCH2COOH	93-76-5	P3	DM or MC	10	mg/m3	
2,4,6-trinitrophenol	(NO2)3C6H2OH	88-89-1	P3		MC	0	mg/m3
2,4,6-tetryl	(NO2)3C6H2NO2CH3	479-45-8	A	P3	MC	2	mg/m3
2,5-Furandione	C4 H2 O3	108-31-6	A	P3	MC	0,25	ppm
2-Aminotoluene	CH3C6H4NH2	95-53-4	A	P3	MC	2,00	ppm
2-butanol	CH3CH(OH)CH2CH3	78-92-2	A		MC	100,00	ppm
2-Carbomethoxy-1-methylvinyl dimethyl phosphate	C7H13PO6	7786-34-7	A	P3	MC	0	ppm
2-Chloro-1,1,2-Trifluoroethyl difluoromethyl ether	CHF2OCF2CHF	13838-16-9			ARI or A AIR	2,000	ppm
2-Chloro-1,3-butadiene	CH2=C(Cl)CH=CH2	126-99-8	AX	P3	MC	VLE = 1	ppm
2-chloroacetaldehyde	ClCH2CHO	107-20-0	A		MC	1,00	ppm
2-Chloroethanol	CH2ClCH2OH	107-07-3	A		MC	1,00	ppm
2-hydroxymethylfuran	C5H6O2	98-00-0	A		MC	10,00	ppm
2-Isopropoxy propane	(CH3)2CHOCH(CH3)2	108-20-3	A		MC	500,00	ppm
2-Mercaptoacetic acid	HSH2COOH	68-11-1	A2B2	P3	MC	1	ppm
2-methoxyethanol	CH3OCH2CH2OH	109-86-4	A		MC	5,00	ppm
2-Methylacrylic acid	CH2=C(CH3)COOH	79-41-4	A	P3	MC	20	ppm
2-methylpropenenitrile	CH2=C(CH3)CN	126-98-7	AB 450	P3	MC	1	ppm
2-Methylpropyl acetate	CH3COOCH2CH2CH(CH3)2	110-19-0	A		MC	150,00	ppm
2-Oxetanone	C3H4O2	57-57-8			ARI or A AIR		
2-Pentanol acetate	CH3COOCH(CH3)C3H7	626-38-0	A		MC	125	ppm
2-Phenyl propylene	C6H5O(CH3)=CH2	98-83-9	A		MC	50,00	ppm
2-propanamide	CH2=CHCONH2	79-06-1	A	P3	MC	0,30	mg/m3
2-propenenitrile	CH2=CHCN	107-13-1	A	P3	MC	2,00	ppm
2-Propenoic acid	CH2=CHCOOH	79-10-7	A		DM or MC	2,000	ppm
2-Propyl acetate	CH3COOCH(CH3)2	108-21-4	A		MC	250,00 (ST)	ppm
2-Propynyl alcohol	C3H3OH	107-19-7	A		MC	1	ppm
3,3'-dichlorobenzidine salts	NH2C6Cl3C6Cl3CINH2	91-94-1	A	P3	MC		
3,3'-dimethylbenzidine	C14H16N2	119-93-7	A	P3	MC	0,02	mg/m3
3,5,5-trimethylcyclohex-2-enone	C9H14O	78-59-1	A		MC	4,00	ppm
3a,4,7,7a-Tetrahydro-4,7-methanoindene	C10 H12	77-73-6	A	P3	MC	5,00	ppm
3-Heptanone	CH3CH2CO(CH2)3CH3	106-35-4	A		MC	50	ppm
3-Methyl-1-butanol acetate	CH3COOCH2CH2CH(CH3)2	123-92-2	A		DM or MC	100	ppm
3-Methyl-5-heptanone	C2H5COCH2CH(CH3)CH2CH3	541-85-5	A		MC	25	ppm
4-Methylpentan-2-One	CH3COCH2CH(CH3)2	108-10-1	A		MC	50	ppm

\*MC/DM = Overall masks / Half-mask

This list is not contractual. It is an indicative list and in no way incurs the liability of DELTA PLUS.

Substances	Chemical formula	n° cas	Plywood filter	Particle filter	MC/DM*	OEL	Unit of measurement	
4,4'-Methylenedianiline (mda)	CH2(C6H4NH2)2	101-77-9	A	P3	MC	0,01	ppm	
4-Hydroxy-4-Methyl-2-Pentanone	CH3COCH2C(CH3)2OH	123-42-2	A		MC	50	ppm	
4-Nitroaniline	C6 H6 N2 O2	100-01-6	A	P3	MC	6	mg/m3	
4-nitrochlorobenzene	C10H4NO2	100-00-5	AB	P3	MC	1,00	mg/m3	
5-Methyl-2-hexanone	CH3COCH2CH2CH(CH3)2	110-12-3	A		MC	50	ppm	
6,9-methano-2,4,3-benzo-dioxathiopin-3-oxide	C9H6O6O3S	115-29-7	A	P3	MC	0	mg/m3	
Acetaldehyde	CH3CHO	75-07-0	AX		MC	100	ppm	
Acetic acid	CH3COOH	64-19-7	A	P3	MC	10,00	ppm	
Acetic ester	CH3COOCH25	141-78-6	A		MC	400,00	ppm	
Acetic oxide	(CH3CO)2O	108-24-7	A		MC	5	ppm	
Acetylene	C2H2	74-86-2			ARI or A AIR	2500	ppm	
Acraldehyde	CH2=CHCHO	107-02-8	AX 450		MC	0	ppm	
Age	C6H10O2	106-92-3	A		MC	5	ppm	
Aldrin	C12H8Cl6	309-00-2	AB	P3	DM or MC	0,25	mg/m3	
Alpha-chlorotoluene	C6H5CH2Cl	100-44-7	A		MC	1	ppm	
Alpha-chloroacetophenone	C6H5COCH2Cl	532-27-4	ABEK	P3	MC	0,30	ppm	
Alpha-starch	(C6H10O5)n	9005-25-8		P3	MC	5,00	mg/m3	
Aluminum metal (respirable dust)	Al	7429-90-5	P2/P3		MC	5,000	mg/m3	
Aluminum trioxide	Al2O3	1344-28-1		P3	DM or MC	4	mg/m3	
Amidocyanogen	NH2CN	420-04-2		P3	DM or MC	2,000	mg/m3	
Aminocyclohexane	C6H11NH2	108-91-8	A		MC	10,000	ppm	
Aminodimethylbenzene	(CH3)2C6H3NH2	1300-73-8	K		DM or MC	2	ppm	
Aminomethane	CH3NH2	74-89-5	K		MC	10	ppm	
Ammonia	NH3	7664-41-7	K		MC	25	ppm	
Ammonium amidosulfonate	NH4OSO2NH2	7773-06-0		P3	MC	5,00	mg/m3	
Ammonium chloride	NH4Cl	12125-02-9	K	P	MC	10	mg/m3	
Amyl acetic ether	CH3COO(CH2)4CH3	628-63-7	A		MC	100	ppm	
Anhydrous hydrogen bromide:	H Br	10035-10-6	B	P3	MC	3	ppm	
Anone	C6H10O	108-94-1	A		DM or MC	25,000	ppm	
Antimony and compounds (as sb)	Sb	7404-36-0		P3	MC	MEL	mg/m3	
Antimony hydride	SbH3	7803-52-3			ARI or A AIR	0	ppm	
Antimony trioxide	O3 Sb2	1309-64-4		P3	DM or MC	0,500	mg/m3	
Argon	Ar	7440-37-1			ARI or A AIR		ppm	
Arsenic & compounds except arsine	As	7440-38-2		P3	MC	0,15	mg/m3	
Arsenic trihydride	AsH3	7784-42-1			ARI or A AIR	0,020	ppm	
Arsenic trioxide	As2O3	1327-53-3			ARI or A AIR	0,200	mg/m3	
Artificial barite	BaSO4	7727-43-7		P3	MC	0,50	mg/m3	
ASEBSTOS, amiant	Hydrated mineral silicates	1332-21-4		PAPR	MC	MEL	fibres/ml	
Asphalt, petroleum fumes	n/a	8052-42-4			ARI or A AIR	5	mg/m3	
Atrazine (iso)	C8H14ClN3	1912-24-9		P3	DM or MC	5,000	mg/m3	
Azimethylene	CH2N2	334-88-3	ABEK	P3	MC	0,20	ppm	
Azirane	C2H5N	151-56-4		K 450	MC		ppm	
Azium	N3	26628-22-8		P3	DM or MC	0	mg/m3	
Azodicarbonamide	C2H4N4O2	123-77-3	A	P3	MC	MEL	mg/m3	
Barium compounds soluble (as ba)	Ba	7440-39-3		P2/P3	DM or MC	1	mg/m3	
Basudin®	C12H21N2O3PS	333-41-5		BE	P3	MC	0,10	mg/m3
BCME [Bis (chloromethyl) ETHER]	(CH2Cl)2O	542-98-1	A2	P3	MC	0,05	mg/m3	
Benomyl (iso)	C14H18N4O3	17804-35-2	A	P3	DM or MC	5,000	mg/m3	
Benzenamine	C6H5NH2	62-53-3	A	P3	MC	2,00	ppm	
Benzene	C6H6	71-43-2	A 450		MC	1,00	ppm	
Benzene chloride	C6H5Cl	108-90-7	A		DM or MC	75,000	ppm	
Benzene hexahydride	C6 H12	110-82-7	A		DM or MC	300,00	ppm	
Benzyl butyl phthalate	C19 H20 O4	85-68-7	A	P	DM or MC	5,000	mg/m3	
Beryllium and compounds	Be	7440-41-7		P3	MC	VLE	mg/m3	
Beta-Aminoethyl alcohol	NH2CH2CH2OH	141-43-5	A		MC	3	ppm	
Beta-Hydroxypropyl acrylate	CH2=CHCOOCH2CH(OH)CH3	999-61-1	A		MC	1	ppm	
BGE	C7 H14 O2	2426-08-6	A		MC	5,60	ppm	
Biottle	H2KAl3(SiO4)3	12001-26-2		P3	DM or MC	3,000	mg/m3	
Bioplatassium chromate	K2 Cr O4	7789-00-6			ARI or A AIR		mg/m3	
Bis(2-ethylhexyl) phthalate	C24H38O4	117-81-7	A	P3	DM or MC	5,000	mg/m3	
Bis(2,3-epoxypropyl) ether	C6H10O3	2238-07-5	A	P3	MC	0,10	ppm	
Bismuth telluride	Bi2Te3	1304-82-1		P3	MC	5,00	mg/m3	
Borates, (tetra) sodium salts	Na2B4O7	1330-43-4		P3	DM or MC	1,000	mg/m3	
Borax decahydrate	Na2B4O7 • 10H2O	1303-96-4		P3	MC	5,00	mg/m3	
Boric anhydride	B2O3	1303-86-2		P3	DM or MC	10,000	mg/m3	
Bornan-2-one	C10H16O	76-22-2	A	P3	DM or MC	2,000	mg/m3	
Boron fluoride	BF3	7637-07-02			ARI or A AIR	1,000	ppm	
Boron hydride	B2H6	19287-45-7	B	P3	MC	0,10	ppm	
Bromacil (iso)	C9H13BrN2O2	314-40-9	AB	P3	DM or MC	1,000	ppm	
Bromine	Br2	7726-95-6	B	P3	MC	0,10	ppm	
Bromine fluoride	BF5	7789-30-2	AX		MC	0,10	ppm	
Bromoethane	CH3CH2Br	74-96-4	AX		MC	200,00	ppm	
Bromoethylene	CH2=CHBr	593-60-2	AX		DM or MC	5,000	ppm	
Bromoform	CHBr3	75-25-2	A		MC	0,50	ppm	
Bromomethane	CH3Br	74-83-9	AX					

# HEAD PROTECTION

Substances	Chemical formula	n° cas	Physico-chemical	Particle filter	MC/DM*	OEL	Unit of measurement
Butyl methyl ketone /MBK	CH3CO(CH2)3CH3	591-78-6	A		MC	5,00	ppm
Butylamine	CH3(CH2)2CH2NH2	109-73-9	BK		MC	5,00	ppm
Cadmium	Cd S	7440-43-9		P3	DM or MC	VLE=0,05	mg/m3
Caesium hydroxide	CSOH	21351-79-1	B		DM or MC	2,000	mg/m3
Calcium carbimide	CaCN2	156-62-7			ARI or A AIR	0,500	mg/m3
Calcium carbonate	CaCO3	1317-65-3		P3	DM or MC	5,000	mg/m3
Calcium hydrate	Ca(OH)2	1305-62-0		P3	DM or MC	5,000	mg/m3
Calcium monosilicate	CaSiO3	1344-95-2		P2/P3	DM or MC	5,000	mg/m3
Calcium sulfate hemihydrate	CaSO4 • 0.5H2O	26499-65-0		P3	DM or MC	5,000	mg/m3
Captafol (iso)	C10H9Cl14NO2S	2425-06-1	A		MC	0,10	mg/m3
Carbaryl (iso)	CH3NHCOOC1OH7	63-25-2	A		DM or MC	5,000	mg/m3
Carbafuran (iso)	C12H15NO3	1563-66-2	A	P3	DM or MC	0,100	mg/m3
Carbolic acid	C6H5OH	108-95-2	A	P3	MC	5	ppm
Carbon black	C	1333-86-4		P3	MC	3,50	mg/m3
Carbon dioxide	CO2	124-38-9			ARI or A AIR	5000,000	ppm
Carbon disulphide	C S2	75-15-0	AX		MC	10,00	ppm
Carbon hexachloride	C3CCl3	67-72-1	A	P3	MC	1,00	ppm
Carbon monoxide	CO	630-08-0			ARI or A AIR	30,000	ppm
Carbon tetrachloride	CCl4	56-23-5	A		MC	2,00	ppm
Carbonyl chloride	COCl2	75-44-5	B	P3	MC	0,10	ppm
Carboxyethane	CH3CH2COOH	79-09-4	A	P3	MC	10	ppm
CB	CH2BrCl	74-97-5	A		MC	200,00	ppm
Cd. Cadmium	CdO/Cd	1306-19-0		P3	MC	VLE=0,05	mg/m3
Cellosolve®	C2H5OCH2CH2OH	110-90-5	A		MC	0,50	ppm
Cellulose (C6H10O5)n		9004-34-6		P3	DM or MC	5,000	mg/m3
Cement as Portland Cement		65997-15-1		P2/P3	DM or MC	10,000	mg/m3
Chlordan	C10H6Cl8	57-74-9	A	P3	DM or MC	0,500	mg/m3
Chlorine	Cl2	7782-50-5	B		MC	0,50	ppm
Chlorine fluoride	ClF3	7790-91-2	B		MC	0,10	ppm
Chlorine oxide	Cl O2	10049-04-4	B		DM or MC	0,100	ppm
Chloroacetic acid chloride	ClCH2COCl	79-04-9	A	P3	MC	0,05	ppm
Chlorocyanide	ClCN	506-77-4	B 450		MC	0,30	ppm
Chlorodimethyl ether	CH3OCH2Cl	107-30-2			ARI or A AIR		
Chloroethane	CH3CH2Cl	75-00-3	AX		DM or MC	1000,000	ppm
Chloroethanoic acid	ClCH2COOH	79-11-8	A	P3	MC	0	ppm
Chloroethene	CH2=CHCl	75-01-4	AX		MC	1,00	ppm
Chloroform	CHCl3	67-66-3	AX		MC	2,00	ppm
Chloromethane	CH3Cl	74-87-3			ARI or A AIR	100,000	ppm
Chloropicrin	CCl3NO2	76-06-2	A	P3	MC	0,10	ppm
Chlorosulfuric acid	HClOS3	7790-94-5	E	P3	MC	1,00	mg/m3
Chlorothene	CH3CCl3	71-55-6	A		MC	300,00	ppm
Chlorpyrifos	C9H11Cl3N3O3PS	2921-88-2	A	P3	DM or MC	0,200	mg/m3
Chromic acid (cro3)	CrO3	1333-82-0	BE	P3	MC	0,05	mg/m3
Chromium	Cr	7440-47-3		P3	MC	0,50	mg/m3
Cobalt and compounds (as co)	Co	7440-48-4		P2/P3	DM or MC	VLE	mg/m3
Copper, dusts and mists	Cu	7440-50-8		P3	MC	1,00	mg/m3
Cray® herbicide No. 1	C6H3Cl2O2CH2CH2O3S3Na	136-78-7		P3	MC	5,00	mg/m3
Cresols (all isomers)	C7 H8 O	1319-77-2	A	P3	MC	5,00	ppm
Cumene	C6H5CH(CH3)2	98-82-8	A		MC	50,00	ppm
Cyanogen chloride, (as -cn)	C - N	57-12-5	B	P3	MC	5,00	mg/m3
Cyclohexene	C6 H10	110-83-8	A		DM or MC	300,000	ppm
Cyclohexylmethane	CH3C6H11	108-87-2	A		DM or MC	400,000	ppm
DBP	C6H4(COOC4H9)2	84-74-2	A	P3	MC	5,00	mg/m3
Dca	CDCl2	7572-29-4			ARI or A AIR	0,100	ppm
DDH	C5H6Cl2NO2	118-52-5	ABEK	P3	MC	0,20	mg/m3
DDT	(C6H4Cl)2CHCl3	50-29-3		P3	MC	1	mg/m3
Di- N- Butyl Phosphate	(C4H9O)2(OH)PO	107-66-4	A	P3	MC	1,00	ppm
Diallyl phthalate	C14 H14 O4	131-17-9	A	P3	DM or MC	5,000	ppm
Diammonium peroxodisulphate	N2 H8 S2 O8	7727-54-0	A	P3	MC	1,00	mg/m3
Dianiline (mboca)	CH2(C6H4CINH2)2	101-14-4	A		MC	0,00	mg/m3
Diatomaceous earth, natural, respirable dust	SiO2	68855-54-9		P3	MC	1,20	mg/m3
DIBENZ(a, h) ANTHRACENE	C22 H14	65996-93-2	A	P3	MC	0,10	mg/m3
Dibenzoyl peroxide	(C6H5CO)2O2	94-36-0	A	P3	DM or MC	5,000	mg/m3
Dibromochloropropane	CH2BrCHBrCH2Cl	96-12-8			ARI or A AIR	0,001	ppm
Dibutyl phosphate	(C4H9O)2(OH)PO	107-66-4	A	P3	MC	1,00	ppm
Dibutylated hydroxytoluene	(C)CH3)3)2OH3C6H2OH	128-37-0		P	MC	10,00	mg/m3
Dichloromethane	CH2Cl2	75-09-2	AX		MC	50,00	ppm
Dichloromethyl ether	(CH2Cl)2O	542-88-1	A2	P3	MC	0,05	mg/m3
Dicyanogen	NCCN	460-19-5	BK		DM or MC	10,000	ppm
Dicyclohexyl phthalate	C20 H26 O4	84-61-7	A	P3	DM or MC	5,000	ppm
Dieldrin (iso)	C12H8Cl6O	60-57-1	A	P3	DM or MC	0,250	mg/m3
Diethyl ether	C2H5OC2H5	60-29-7	AX		MC	400,00	ppm
Diethyl phthalate	C6H4(COOC2H5)2	84-66-2	A	P3	DM or MC	5,000	mg/m3
Diethyl sulphate	C4 H10 O4 S	64-67-5	A	P3	MC	VLE	ppm
Diethylene imidoxide	C4H9NO	110-91-8	A		MC	20	ppm
Difluorodibromomethane	CF2Br2	75-61-6			ARI or A AIR	100,000	ppm
Disooecyl phthalate	C28 H46 O4	26761-40-0	A	P3	DM or MC	5,000	mg/m3
Disononyl phthalate	C26 H42 O4	28553-12-0	A	P3	DM or MC	5,000	mg/m3
Disooecyl phthalate	C24 H38 O2	27554-26-3	A	P3	DM or MC	5,000	mg/m3
Diisopropylamine	[(CH3)2CH]2NH	108-18-9	K		MC	5	ppm
Dimethyl carbinol	(CH3)2CH2OH	67-63-0	A		MC	400	ppm
Dimethyl ester of 1,2-benzenedicarboxylic acid	C6H4(COOCH3)2	131-11-3	A	P3	MC	5,00	mg/m3
Dimethyl ether	H6 C2 O	115-10-6			ARI or A AIR	400,000	ppm
Dimethyl methane	CH3CH2CH3	74-98-6			ARI or A AIR	1000,000	ppm
Dimethyl sulphate	(CH3)2SO4	77-78-1	A	P3	MC	0,10	ppm
Dimethylacetone	CH3CH2COCH2CH3	96-22-0	A		DM or MC	200,000	ppm
Dimethylaminoethanol	C4H11NO(CH3)2NHCH2CH2OH	108-01-0	A		MC	? 2	ppm
Dimethylnitromethane	(CH3)2CH(NO2)	79-46-9	A	P3	MC	10,00	ppm
Dinitrogen tetroxide (N2O4)	N O2	10102-44-0	NO		MC	3,00	ppm
Diphenyl	C6H5C6H5	92-52-4	A	P3	MC	0,20	ppm
Diphenyl ether (vapor)	C6H5OC6H5	101-84-8	A	P3	MC	1,00	ppm
Dipotassium peroxodisulphate (measured as s269)	H2 K2 O8 S2	7727-21-1	AB	P	MC	1,00	mg/m3
Direx®	C6H3Cl2NHCNO(CH3)2	330-54-1		P3	DM or MC	10,000	mg/m3
Disodium peroxodisulphate (measured as s268)	Na2 O8 S2	7775-27-1	A	P3	MC	1,00	mg/m3
Disodium tetraborate, decahydrate	Na2B4O7 • 10H2O	1303-96-4		P3	MC	5,00	mg/m3

Substances	Chemical formula	n° cas	Physico-chemical	Particle filter	MC/DM*	OEL	Unit of measurement	
Disodium tetraborate, pentahydrate	B4 O7 2Na 10H 2O	11130-12-4		A	P3	DM or MC	1,000	mg/m3
Disulfoton (iso)	C8H19O2PS3	298-04-4	ABE	P3	MC	0,10	mg/m3	
Disulphur dichloride	S2 Cl2	10025-67-9	B	P3	MC	1,00	ppm	
Divanone pentoxide (as v)	V2O5	1314-62-1		P3	MC	VLE=0,005	mg/m3	
DMAC	CH3CON(CH3)2	127-19-5	A		DM or MC	10,000	ppm	
DMF	HCON(CH3)2	68-12-2	A		MC	10,00	ppm	
DMH	(CH3)2NNH2	57-14-7	K 450		MC	0,06	ppm	
Eca	C6H7NO2	7085-85-0	AXB	P3	MC	2	mg/m3	
Elemental selenium	Se	7782-49-2		P3	MC	0	mg/m3	
Endrine	C12H8Cl6O	72-20-8		P3	MC	0,10	mg/m3	
Ethane	C2 H6	74-84-0			ARI or A AIR		ppm	
Ethanedioic acid	HOCCOOH • 2H2O	144-62-7		P3	MC	1	mg/m3	
Ethanethiol	CH3CH2SH	75-08-1	AX	P3	MC	1	ppm	
Ethyl acetone	CH3COCH2CH2CH3	107-87-9	A		MC	200	ppm	
Ethyl acrylate	CH2=CHCOOC2H5	140-88-5	A		MC	5,00	ppm	
Ethyl alcohol	CH3CH2OH	64-17-5	A		MC	1000	ppm	
Ethyl chloroformate	C3H5ClO2 / ClCOOC2H5	541-41-3			ARI or A AIR	1	ppm	
Ethyl ester of formic acid	CH3CH2OCHO	109-94-4	AX		MC	100	ppm	
Ethyl methyl ketone	CH3COCH2CH3	78-93-3	A		MC	200,00	ppm	
Ethyl nitrite	CH3CN	75-05-8	A		MC	40	ppm	
Ethyl parathion	(C2H5O)2P(S)OC6H4NO2	56-38-2	A2	P3	MC	0	mg/m3	
Ethylamine	CH3CH2NH2	75-04-7	K		MC	10,00	ppm	
Ethylbenzene	CH3CH2C6H5	100-41-4	A		MC	100	ppm	
Ethylene	C2 H4	74-85-1			ARI or A AIR		ppm	
Ethylene bromide	BrCH2CH2Br	106-93-4	A		MC	0,05	ppm	
Ethylene oxide	C2H4O	75-21-8	AX		MC	5,00	ppm	
Ferbarb (iso)	[(CH3)2NC(S)2]3Fe	14484-64-1		P3	MC	10	mg/m3	
Ferrocene	C10 H10 Fe	102-54-5	A		P	MC	10	mg/m3
Fluoride (as f)	F	16984-48-8	AB	P3	DM or MC	3	mg/m3	
Fluorine-19	F2	7782-41-4	B		MC	1,00	ppm	
Formal	CH3OCH2COCH3	109-87-5	AX		MC	1000,00	ppm	
Formaldehyde	HCHO	50-00-0	ABE		MC	0,50	ppm	
Formamide	HCONH2	75-12-7	A	P3	MC	10,00	ppm	
Formic acid	HCOOH	64-18-6	B / BE	P3	MC	5	ppm	
Formonitrile	HCN	74-90-8	B	P3	MC	2,00	ppm	
Freon® 112	CCl2CF2	76-12-0	A		MC	500,00	ppm	
Freon® 112a	CCl3CF2	76-11-9	A		MC	500,00	ppm	
Freon® 113	CCl2CF2O2	76-13-1			ARI or A AIR	1000	ppm	
Freon® 114	CClF2CO2F2	76-14-2			ARI or A AIR	1000,000	ppm	
Freon® 12	CCl2F2	75-71-9			ARI or A AIR	1000,000	ppm	
Freon® 21	CHClF2	75-43-4			ARI or A AIR	10,000	ppm	
Freon® 22	CHClF	75-45-6			ARI or A AIR	1000,000	ppm	
Germanium tetrahydride	GeH4	7782-65-2			ARI or A AIR	0	ppm	
Glycerol	HOCH2CH(OH)CH2OH	56-81-5	A	P3	MC	5,00	mg/m3	
Glycidyl phenyl ether	C9H10O2	122-60-1	A		MC	1	ppm	
Glycol dinitrate	O2NOC2H4OC2H4ONO2	628-96-6		P	MC	0,20	ppm	
Graphite	C	7440-44-0		P2/P3	DM or MC	5,000	mg/m3	
Guthion®	C10H12O3PS2N3	86-50-0	A	P3	DM or MC	0	mg/m3	
Gypsum	Ca S O6 H4	10101-41-4		P3	MC	4	mg/m3	
Hafnium	Hf	7440-58-6		P3	MC	1	mg/m3	
Halon® 1301	CF3Br	75-63-8			ARI or A AIR	1000,000	ppm	
Helium	He				ARI or A AIR		pp	

# TECHNICAL INFORMATION

Substances	Chemical formula	n° cas	Plywood filter	Particle filter	MC/DM*	OEL	Unit of measurement	
Lithium hydroxide	LiOH	1310-65-2	A	P3	MC	1,00 (ST)	mg/m3	
Lithium monohydride*	LiH	7580-67-8	A	P3	MC	0,025	mg/m3	
LP6 (Liquiflud Petroleum Gas)	Mx : C3 H6; C3 H8; C4 H8; C4 H10	68476-85-7			ARI or A AIR	1000,00	ppm	
Magnetite	MgCO3	546-93-0	P3	DM or MC	5,000	mg/m3		
Magnesium oxide, fume and dust (as mg)	MgO	1309-48-4	P3	DM or MC	15	mg/m3		
Malathion (iso)	C10H19O6PS2	121-75-5	A	P3	MC	10	mg/m3	
Manganese and compounds (as mn)	Mn	7439-96-5	P2/P3	DM or MC	1,000	mg/m3		
Manganese tetroxide	Mn3O4	1317-35-7	P3	DM or MC	1	mg/m3		
Manganese tricarboxymethylcyclopentadieny	CH3CO2CH(CO)3	12108-13-3	A	P3	MC	0	mg/m3	
Margarite	n/a	12001-26-2	P3	DM or MC	3,000	mg/m3		
MD	C5H5Mn(CO)3	12079-65-1	A	P3	DM or MC	0,100	mg/m3	
MDI	CH2(C6H4NCO)3	101-68-8	A	P3	MC	0,01	ppm	
Mecrylate	CH2=C(CN)COOCH3	137-05-3	A	P3	MC	2,00	ppm	
Mercury & its inorganic divalent compounds	Hg	7439-97-6	Hg	P3	DM or MC	0,050	mg/m3	
Methylene	C6H3(CH3)3	108-67-8	A	A	MC	25	ppm	
Methacrylate monomer	CH2=C(CH3)COOCH3	80-62-6	A	A	MC	100	ppm	
Methane	CH4	74-82-8			ARI or A AIR		ppm	
Methane tetrabromide	CBr4	558-13-4	A	DM or MC	1,400	mg/m3		
Methane tetramethylol	C(CH2OH)4	115-77-5	A	P3	MC	5	mg/m3	
Methanethiol	CH3SH	74-93-1	AXB		MC	0,50	ppm	
Methanol	CH3OH	67-56-1	AX		MC	200	ppm	
Methoxymyl (iso)	CH3O(SCH3)N(C)O(NH)CH3	16752-77-5	P3	P3	MC	3	mg/m3	
Methoxy-ddt	(C6H4OCH3)2CHCOCH3	72-43-5	A	P3	DM or MC	15,000	mg/m3	
Methyl acetate	CH3COOCH3	79-20-9	AX		MC	200,00	ppm	
Methyl ester of formic acid	HCOOCH3	107-31-3	AX		MC	100	ppm	
Methyl ester of isocyanic acid	CH3NCO	624-83-9	B	P3	MC	VLE=0,02	mg/m3	
Methyl ethylene oxide	C3H6O	75-56-9	AX 450		MC	100,00	ppm	
Methyl parathion	(CH3O)2P(S)OC6H4NO2	298-00-0	A2	P3	MC	0	mg/m3	
Methyl phosphite	(CH3O)3P	121-45-9	A	P3	MC	2	ppm	
Methyl propenoate	CH2=CHCOOCH3	96-33-3	A	A	MC	10	ppm	
METHYL- t- BUTYL ETHER	C5 H12 O	1634-04-4	AX	P3	MC	25	ppm	
Methylene oxide	HCHO	50-00-0	ABE		MC	0,50	ppm	
Methylstyrene	CH2=CHC6H4CH3	25013-15-4	A	A	MC	100	ppm	
Miak	CH3COCH2CH2CH(CH3)2	110-12-3	A	A	MC	50	ppm	
Mibc	(CH3)2CHCH2CH(OH)CH3	108-11-2	A	A	MC	25	ppm	
MMH	CH3NH2	60-34-4	AK	P3	MC	0,04	ppm	
Molybdenum compounds (as mo)	Mo	7439-98-7		P3	MC	5	mg/m3	
Monochloropentafluoroethane	CFClF2	76-15-3			ARI or A AIR	1000,000	ppm	
Monofluorotrifluoromethane	CF3F	75-69-4			ARI or A AIR	1000	ppm	
N- Butyl chloroformate	C5 H10 Cl O2	592-34-7	A	P3	MC	1,00	ppm	
N- propyl acetate	CH3COOCH2CH2CH3	109-60-4	A	A	MC	200,00	ppm	
N, N- dimethylalanine	C6H5N(CH3)2	121-69-7	A	P3	MC	5,00	ppm	
N,N-Dimethyl-4,4'-bipyridinium dichloride	CH3(C5H4N)2CH3 • 2Cl	1910-42-5	A	P3	MC	0,10	mg/m3	
Naphthalene	C10H8	91-20-3	A	P3	MC	10,00	ppm	
Navade®	C4H6O2(SPS)(OC2H5)2	78-34-2	A	P3	MC	0,20	mg/m3	
Neon	Ne	7440 01 9			ARI or A AIR		ppm	
N-Ethylethanamine	(C2H5)2NH	109-89-7	K+ 450		MC	10,00	ppm	
N-Ethylmorpholine	C6 H13 N O	100-74-3	A	P3	MC	5,00	ppm	
Ng	CH2NO3CHNO3CH2NO3	55-63-0	A	P3	DM or MC	0,100	mg/m3	
Nickel and inorganic compounds	Ni	7440-02-0	P3	P3	DM or MC	1,000	mg/m3	
Nickel carbonyl	Ni(CO)4	13463-39-3			ARI or A AIR	0,10 (ST)	ppm	
Nicotine	C5H4NC4H7NCH3	54-11-5	A	P3	DM or MC	1	mg/m3	
Nitraprin	C15H33NCO3	1929-82-4	AB	P3	MC	5,00	mg/m3	
Nitric oxide	N O	10102-43-9			ARI or A AIR	25	ppm	
Nitrocarbol	CH3NO2	75-52-5	A	P3	MC	100	ppm	
Nitroethane	CH3CH2NO2	79-24-3	A	P3	MC	100	ppm	
Nitrogen	N2	7727-37-9			ARI or A AIR		ppm	
Nitrogen trifluoride	NF3	7783-54-2			ARI or A AIR	10	ppm	
Nitropropane	CH3CH2CH2NO2	108-03-2	A	P3	MC	25	ppm	
N-methylmethanamine	(CH3)2NH	124-40-3	K		MC	10,00	ppm	
NN- Dimethylethylamine	CH4 H11 N	598-56-1	K	P3	MC	5,00	ppm	
N-Nitroso-N,N-dimethylamine	(CH3)2N2O	62-75-9	A	P3	MC			
N-octane	CH3(CH2)6CH3	111-65-9	A	A	MC	75,00	mg/m3	
Nonyphenols	C15H24O	25154-52-3	A	P3	MC			
N-phenylmethylamine	C6H5NHCH3	100-61-8	A	A	DM or MC	1	ppm	
N-Trichloromethylmercapto-4-cyclohexene 1,2-dicarboximide	C9H8Cl3NO2S	133-06-2	A	P3	DM or MC	5,000	mg/m3	
Nux vomica	C21H22N2O2	57-24-9	A	P3	MC	0	mg/m3	
O- acetylsalicylic acid	CH3COOC6H4COOH	50-78-2	P2/P3		DM or MC	5,00	mg/m3	
O-anisidine	NH2C6H4OCH3	90-04-0	A	P3	MC	1	mg/m3	
O-dianisidine	(NH2C6H3OCH3)2	119-90-4	P3	DM or MC				
O-diphenylbenzene	C6H5C6H4C6H5	84-15-1	P3	DM or MC	1	ppm		
Oil mist, mineral		8012-95-1	P3		MC	5	mg/m3	
Oil of mirbane	C6H5NO2	98-95-3	A	P3	MC	1	ppm	
O-nitrotoluene	NO2C6H4CH3	88-72-2	A	P3	MC	2,00	ppm	
Ortho-dichlorobenzene	C6H4Cl2	95-50-1	A	A	MC	50,00	ppm	
Orthophosphoric acid	H3PO4	7664-38-2	B	P3	MC	1,00 (ST)	mg/m3	
O-sec-Butylphenol	CH3CH2CH(CH3)C6H4OH	89-72-5	A	P3	MC	5,00	ppm	
Osmium oxide	OsO4	20816-12-0	B	P3	MC	0	mg/m3	
Oxocetyl alcohol	C7H15CH2OH	26952-21-6	A	A	MC	50	ppm	
Ozone	O3	10028-15-6	AXB2	P3		MC	0	ppm
P - Aramid respirable fibres	(C14 H10 O2 N2) n	26125-61-1		P3	DM or MC	0.50	fibres/ml	
P- toluenesulphonyl chloride	C7 H7 S O2 Cl	98-59-9	AB	P3	DM or MC	5,00 (ST)	mg/m3	
Paracetamol	C8 H9 N O2	103-90-2	P3		DM or MC	10,00	mg/m3	
P-Dioxane	C4H8O2	123-91-1	A	P3	MC	10,00	ppm	
Pentachlorophosphorus	PCl5	10026-13-8	B	P3	MC	1,00	mg/m3	
Pentane	CH3(CH2)3CH3	109-66-0	AX		MC	120	ppm	
Paraacetic acid	C2H4O3	79-21-0	AB	P3	DM or MC		ppm	
Peroxoide de 2-Butanone	C8H16O4	1338-23-4	A	P3	MC	VLE=0,2	ppm	
Phenyl phosphate	(C6H5O)3PO	115-86-6	A	P3	MC	3	mg/m3	
Phenylalanine	(C6H5)2NH	122-39-4	A	P3	MC	10,00	mg/m3	
Phenylethylene	C6H5CH=CH2	100-42-5	A	A	MC	50,00	ppm	
Phorate	(C2H5O)2P(S)CH2SC2H5	298-02-2	A	P3	MC	0	mg/m3	
Phosphorus oxychloride	POCl3	10025-87-3	B	P3	MC	0	ppm	
Phosphorus pentasulphide	P2S5/P4S10	1314-80-3	B 450	P3	MC	1,00	mg/m3	

Substances	Chemical formula	n° cas	Plywood filter	Particle filter	MC/DM*	OEL	Unit of measurement
Phosphorus pentoxide		1314-56-3	A	P3	DM or MC	2,00 (ST)	mg/m3
Phosphorus trichloride	PCl3	7719-12-2	B 450	P3	MC	0	ppm
Phosphorus, yellow	P4	7723-14-0			ARI or A AIR	0	mg/m3
Picloram (iso)	C6H3Cl3O2N2	1918-02-1	AB	P3	MC	5,00	mg/m3
Piperazine hydrochloride	C4H11ON2 HCl	142-64-3	P3		MC	5,00	mg/m3
Piperidine	CH2(CH2)4NH	110-89-4	A	A	DM or MC	?	ppm
Platinum metal	Pt	7440 06 4	P2/P3		DM or MC	5	mg/m3
Polychlorinated biphenyl	C6H3Cl2C6H2Cl3	11097-69-1	AB	P3	MC	0,10	mg/m3
Polychlorinated biphenyls (pcb's)	C12 H(10- x) Clx	1336-36-3			ARI or A AIR	0,500	mg/m3
Potassium bromate	K Br O3	7789-01-2	P3		DM or MC		
Potassium hydroxide	KOH	1310-58-3	P3		MC	2,00 (ST)	mg/m3
P-quinone	OC6H4O	106-51-4	A	P3	MC	0,10	ppm
Primary isoamyl alcohol	(CH3)2CHCH2CH2OH	123-51-3	A	A	MC	100	ppm
Propranolol	C16 H21 N O2	525-66-6	A	P3	DM or MC	2	mg/m3
Propylene	C3 H6	115-07-1			ARI or A AIR		ppm
Propylene glycol	as Propane- 1,2- diol	57-55-6	A	P3	DM or MC	150	ppm
Propylene glycol-1,2-dinitrate	CH3ONO2CHONO2	6423-43-4	A	P3	MC	0	ppm
Pvc (polyvinyl chloride) (resp. Dust)	(C2 H3 Cl) n	9002-86-2	P3		MC	4	mg/m3
Pyridine	C5H5N	110-86-1	A	P3	MC	5	ppm
Pyrophosphate	Na4P2O7	7722-88-5	P3		MC	5	mg/m3
Quartz	SiO2	14808-60-7	P3		DM or MC	0,050	mg/m3
RDX	C3H8N6O6	121-82-4	P3		DM or MC	1,500	mg/m3
Resorcinol	C6H4(OH)2	108-46-3	A	P3	MC	10	ppm
Rhodium (as rh) metal fume and dust	Rh	7440-16-6	P2/P3		DM or MC	0	mg/m3
Rotenone (iso)	C23 H22 O6	83-79-4	A	P3	MC	5	mg/m3
Saccarose	C12H22O11	57-50-1	P2/P3		DM or MC	10	mg/m3
Sec-Hexyl acetate	C8 H16 O2	108-84-9	A	A	MC	50	ppm
Seekay wax	C10H4C4	1335-88-2	A	P3	DM or MC	2	mg/m3
Selenium dihydride	H2 Se	7783-07-5			ARI or A AIR	0	ppm
Silica, amorphous (resp. Dust)	SiO2	7631-86-9	P3		MC	6,00	mg/m3
Silica, fused (resp. Dust)	SiO2	60676-86-0	P3		MC	0	mg/m3
Silicane	SiH4	7803-62-5			ARI or A AIR	5,000	ppm
Silicon (resp. Dust)	Si	7440-21-3	P3		MC	4	mg/m3
Silicon monocarbide	SiC	409-21-2	P3		DM or MC	5,000	mg/m3
Silver, metallic	Ag	7440-22-4	P3		MC	0	mg/m3
Sodium bisulphite	NaHSO3	7631-90-5	P2/P3		MC	5	mg/m3
Sodium hydroxide	NaOH	1310-73-2	P3		MC	2,00 (ST)	mg/m3
Sodium metabisulphate	Na2S2O5	7681-57-4	B	P3	MC	5,00	mg/m3
Sodium monofluoroacetate	FCH2COONa	62-74-8	P3		DM or MC	0	mg/m3
Subtilisins	Bacillus subtilis	1395-21-7			ARI or A AIR	0	mg/m3
Sulfur fluoride	SF6	2551-62-4	BE	P3	MC	1000	ppm
Sulfurous oxychloride	SOCl2	7719-09-7	B	P3	MC	1,00 (ST)	ppm
Sulphur dioxide	SO2	7446-09-5	E		MC	2	ppm
Sulphur pentoxide	S2F10	5714-22-7	B	P3	MC	0,01	ppm
Sulphur tetrafluoride	SF4	7783-60-0			ARI or A AIR	0	ppm
Sulphuryl difluoride	SO2F2	2699-79-8	BE 450		MC	5	ppm
Sym-dichloroethylene	C1CH=CHCl	540-59-0	AX		MC	200,00	ppm
Tantalum	Ta	7440-25-7	P3		MC	5	mg/m3
TCP	(CH3C6H4)3PO	78-30-8	A	P3	DM or MC	0	mg/m3
TDI	CH3C6H3(NCO)2	584-84-9	A2B2	P3	MC	VLE=0,01	ppm
TEA	(C2H5)3N	121-44-8			MC	10,00	ppm
Tedp	[(CH3CH2)2PS]2O	3689-24-5	ABE	P3	MC	0	mg/m3
Tellurium & compounds	Te	13494-80-9	P2/P3		DM or MC	0	mg/m3
Tellurium fluoride	TeF6						