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FILTER SELECTION GUIDE

Click the section you require:

[Protection Factors for Respiratory](#)

Letter The Name Of The Chemical You Are Looking For, Starts With

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

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* MEL Maximum Exposure Limit

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Protection Factors for Respiratory Protective Equipment

	Classification	NPF*	APF**
DISPOSABLE DUST MASKS (EN 149)			
(Moulded, Fold Flat & Deluxe Fold Flat)	FFP1	4.5	4
	FFP2	12.5	10
	FFP3	50	20
REUSABLE DUST MASKS (EN 1827)			
Tradesman1	FMP1	4.5	4
	FMP2	12.5	10
28 DAY MASKS (EN 405)			
(FilterJet, MaxiJet & Tradesman2)	FF Gas +P1	4.5	4
	FF Gas +P2	12.5	10
	FF Gas +P3	50	10
HALF MASKS (EN 140)			
(Midimask, Maximask, Maximask 2000 & Tradesman3)	P1	4.5	4
	P2	12.5	10
	P3	50	20
	Gas	50	10
	Gas + P3	-	10
FULL FACE MASKS (EN 136)			
(Olympus Full Face Mask)	P2	17	10
	P3	1000	40
	Gas	2000	20
	Gas + P3	-	20
POWERED RESPIRATORS (EN 12941)			
(Powercap)	TH1P	-	10
(Jetstream)	TH2PSL	-	20
(Jetstream)	TH2A2		20
(Jetstream)	TH2A2PSL		20
COMPRESSED AIRLINE HALF MASK (EN 139)			
(Air Fed Half Mask)	-	50	20
COMPRESSED AIRLINE BREATHING APPARATUS (EN 270)			
(Air Fed Faceshield)	-	200	40

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NPF, Nominal Protection Factor

Offer a guide to the potential performance of a respirator. They are calculated by dividing 100 by the maximum allowed total inward leakage value as specified by the relevant standard.

For example:

FFP3 disposable dust mask to EN 149, maximum allowed inward leakage is 2%, $100 \div 2 = 50$. Therefore the minimum Nominal Protection Factor of an FFP3 device to meet the requirements of EN 149, is 50.

APF, Assigned Protection Factor

Are designed to indicate a respirator's realistic level of performance in the workplace. They assume that the equipment is correctly selected, fitted and maintained, and that the protection levels will be achieved by 95% of the work force. The figures for APF's are much lower than the NPF's. A consequence of this is that in areas where respirators and breathing apparatus have been working close to the NPF levels, these procedures will have to be reviewed. Readers are reminded that under Regulation 6 of COSHH (Control of Substances Hazardous to Health) that a full and comprehensive assessment should be carried out prior to work commencing.

NOTE the WEL figures in this document are long term exposure limits (8 hour reference period) and where available the short-term exposure limit (15 minute reference period) has also been included. WEL's are listed in ppm – parts per million or mg/m³ - milligrams per metre cubed.

1ppm = 2.58mg/m³ @ 25 C and 1 ATM.

WEL is a UK unique technical term, the data in these columns is set by the UK HSE and do not apply outside the UK. For other countries the country's national safety executive should be consulted on exposure levels for hazardous substances.

Selecting the correct respiratory device, whether disposable mask or cartridge respirator, requires an understanding of the hazard that is going to be encountered. The following information needs to be considered and can be found through reference to various documents, including the hazard's Material Safety Data sheet, relevant Health & Safety Executive Publications, this document and the risk assessment report.

- 1. What is the name of the hazard?**
- 2. In what form is the hazard encountered?**
- 3. What other applicable regulations may affect selection?**
- 4. What is the Workplace Exposure Limit for the hazard?**
- 5. What is the airborne concentration of the hazard?**
- 6. How long will the workers be exposed to the hazard within any given 24 hour period ?**

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With this information it is possible to determine the Time Weighted Average concentration (TWA), by using the relevant equation.

Long Term Exposure: $(\text{Concentration} \times \text{Time of exposure})/8$

Short Term Exposure: $(\text{Concentration} \times \text{Time of exposure})/0.25$

By ascertaining the result of TWA divided by WEL it is possible to determine the minimum required efficiency of the appropriate filter.

The five forms of hazard that are commonly encountered in the work place are:

Dust	Formed by the breaking down of solid materials. In general the smaller the dust particle the greater the hazard. Fibres of material should be treated as dusts.
Mist	Formed by processes that involve atomisation (such as spraying) and consist of tiny liquid droplets.
Fume	Formed by the vaporisation of a solid material by the application of intense heat. Extremely fine solid particles are formed as the vapour cools and condenses.
Vapour	A gaseous state formed by evaporation from substances that are normally either solid or liquid at room temperature. A fume may form as the vapour cools.
Gas	An air-like substance at room temperature. Gases can travel very far, very quickly.

An example using Assigned Protection Factors to calculate the actual protection required:

Concentration of contaminant (ppm) / WEL (ppm) = Minimum required protection factor

E.g. Xylene is present at a concentration of 800ppm. The WEL is 100 ppm: $800 \div 100 = 8$

Therefore a half mask with an A1 gas filter, which has an APF of 10 is appropriate.

Carcinogens, mutagens and substances toxic for reproduction

Substances in these categories are shown as follows

1. carcinogenic of category 1 or 2 (shown as category C1 or C2),
2. mutagenic of category 1 or 2 (shown as category M1 or M2)
3. toxic for reproduction of category 1 or 2 (shown as category R1 or R2)

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A Quick Guide To Filter Types:

Filter type:	Protection against:
A1/A2	Organic vapours and gases
B1/B2	Inorganic vapours and gases
E1/E2	Acidic vapours and gases
K1/K2	Ammonia and derivatives vapours and gases
A2P3	Organic vapours and gases + Particulates
ABEK2	Organic/Inorganic/Acidic/Ammonia vapours and gases
ABEK2P3	Organic/ Inorganic/ Acidic /Ammonia vapours and gases + Particulates
AB2P3	Organic/ Inorganic vapours and gases + Particulates
AB2	Organic/ Inorganic vapours and gases
P1/P2/P3	Particulates

This document is produced as an aid to selection of respiratory protective equipment and does not form part of a contract. These notes do not relieve the customer of their duties as described by COSHH and other Health & Safety Executive regulations. The information contained within this document should not be considered a final or authoritative list. JSP Ltd accepts no responsibility or liability for loss or injury from the use of equipment that does not comply with the recommendations made to the user following the required COSHH assessment.

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP	A							
2-aminoethanol	1	2.5	3	7.6	A	141-43-5		
2-aminopyridine (2-pyridylamine)	0.5	2			AP	504-29-0		
2-acetylaminofluorene						53-96-3		
3-amino-1,2,4-Triazole (herbicide)	-		-		AP3	61-82-5		
4-aminoazobenzene					AP	60-09-3	C2	
4-aminobiphenyl (4-Aminodiphenyl & salts of)					SCBA	92-67-1	C1	
4-amino-2',3-dimethylazobenzene						97-56-3	C2	
4-amino-3-fluorophenol	-		-		AP	399-95-1	C2	
5-allyl-1,3-benzodioxole: safrole						94-59-7	C2	
abate	-		-		P2			
acetaldehyde	20	37	50	92	AX	75-07-0		
acetic acid	10	25			BE	64-19-7		
acetic anhydride	0.5	2.5	2	10	A	108-24-7		
acetone (2-propane; dimethyl ketone; ketone propane)	500	1210	1500	3620	AX	67-64-1		
acetonitrile	40	68	60	102	A	75-05-8		
acetone cyanohydrin						75-86-5		
acetylene (ethyne; narycylen)					Air Fed	74-86-2		
acetylene dichloride (1,2-dichloroethylene)	200	250	806	1010		156-60-5		
acetylene tetrabromide					AP3	79-27-6		
o-acetylsalicylic acid (asprin)		5			P2	50-78-2		
acibenzolar (pesticides)						1266448-41-7		
acid (conc. fumes)	-		-		B/EP2			
acrolein/acrylaldehyde	0.1	0.23	0.33	0.7	AXP3	107-02-8		
acrylaldehyde	0.1	0.23	0.3	0.7	AXP3	107-02-8		
acrylamide* (propenamide; acrylaldehyde monomer)	-	0.3			AP2	79-06-1	C2	M2

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	ppm	mg/m ³	ppm	mg/m ³			
acrylate & derivatives	-		-		AP2		
acrylic acid	10	30			A	79-10-7	
acrylic acid ethyl ester					A	140-88-5	
acrylic acid 2-ethylhexyl ester					A	103-11-7	
acrylic acid methyl ester					A	96-33-3	
acrylic acid polymer					A	9003-04-7	
acrylonitrile* (propeneitrile; vinyl cyanide)	2	4.4			AP3	107-13-1	C2
adipic acid	-		-		P2	124-04-9	
adiponitrile						111-69-3	
agrose							
alcohols (in general)	-		-		A		
alachlor (herbicide)					P3	15972-60-8	
aldrin (iso) (insecticide)	-	0.25			AP3	309-00-2	
aldicarb (insecticide)						116-06-3	
aliphatic hydrocarbons	-		-		AP3		
allyl 2,3-epoxypropyl ether	5	24			A	106-92-3	
allyl alcohol	2	4.8	4	9.7	A	107-18-6	
allyl chloride	-		-		AXP3	107-05-1	
allyl glycidyl ether (AGE)	5				A	106-92-3	
allyl isothiocyanate					<i>Air Fed</i>	57-06-7	
allyl propyl disulfide					BP2	2179-59-1	
alpha chlorotoluene	1				A	100-44-7	
aluminium metal : respirable dust	-	4			P2	7429-90-5	
: total inhalable dust	-	10			P2	7429-90-5	
aluminium alkyls	-	2			AP2		
aluminium compounds	-	2			P2		
aluminium oxides : respirable dust	-	4			P2	1344-28-1	

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	ppm	mg/m ³	ppm	mg/m ³					
: total inhalable dust	-	10			P2				
aluminium phosphide (Phostoxin)					BP3	20859-73-8			
aluminium pyro powders	-		-		P2				
aluminium soluble salts	-	2			P2	1344-28-1			
aluminium welding fumes	-		-		P3				
amines	-		-		K				
o-aminoazotoluene						97-56-3	C2		
p-aminobenzoic acid					P3	150-13-0			
p-aminophenyl ether						101—80-4	C2	M2	
aminodimethylbenzene (Xylidine)	2	10			AP	1300-73-8			
amitraz (insecticide)						33089-61-1			
amitrole (herbicide)	-		-		AP3	61-82-5			
ammonia	25	18	35	25	K	7664-41-7			
ammonium chloride fume	-	10		20	P3	1215-02-9			
ammonium dichromate						7789-09-5	C2	M2	R2
ammonium sulfamate (ammate)(also spelt sulphamate)	-		10		P3	7773-06-0			
ammonium sulphamidate	-	10		20	P3	7773-06-0			
amosite (BROWN ASBESTOS)	-			0.1f/ml per 4hr	P3	1332-21-4			
n-amyl acetate (1-pentanol acetate)	50	270			A	628-63-7			
sec-amyl acetate (2-pentanol acetate)	50	270			A	628-63-7			
tert-amyl acetate	50	270			A	628-63-7			
amyl ether	100		-		A	693-65-2			
n-amylalcohol (2-methyl-2-butanol)					A	75-85-4			
aniline	1	4			AP2	62-53-3			
anisidine (o-,p-Isomers)	0.1	0.51			AP3	119-90-4	C2		
anthracene (anthracin; paranaphthalene)	-		-		P3	120-12-7			

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	ppm	mg/m ³	ppm	mg/m ³					
antimony and compounds*	-	0.5			P3	7440-36-0			
antimony hydride (stibene: hydrogen antimonide)	0.1	0.52			BP3	7803-52-3			
antimony trioxide*	-	0.5			P3	1309-64-4			
antimony trisulphide		0.5			P	1345-04-6			
ANTU (a-naphthylthiocarbamide; 1-naphthylthiourea)	-	0.3			BP3	86-88-4			
p-aramid respirable fibres			0.5f/ml		P2	26125-61-1			
arsenic acid & its salts	-	0.1			P3	22538-92-7	C1		
argon					<i>Air Fed</i>	7440-37-1			
arsenic pentoxide*; arsenic oxide	-	0.1			P3	1303-28-2	C1		
arsenic trioxide*		0.1			P3	1327-53-3	C1		
arsenic & compounds (except arsine)	-	0.1			P3	7440-38-2			
arsine	0.05	0.16			<i>Air Fed</i>	7784-42-1			
asbestos (amosite; chrysotile; crocidolite)	-		0.1f/ml per 4hr		P3	1332-21-4			
asphalt (petroleum fumes)	-	5		10	AP2	8052-42-4			
asprin (o-acetylsalicylic acid)	-	5			P2	50-78-2			
atrazine	-	10			P	1912-24-9			
azafenidin						68049-83-2			R2
azamethiphos (insecticide)					AP2	35575-96-3			
azinphos-methyl (insecticide/acaricide)	-	0.2			AP3	86-50-0			
aziridine (aminoethylene)	-		-		K	151-56-4	C2	M2	
azobenzene					AP2	103-33-3	C2		
azodicarbonamide	-	1.0		3.0	P3	123-77-3			

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	B							
1-butanol (<i>n</i> -butyl alcohol; butyric alcohol)			50	154	A	71-36-3		
1-bromopropane; propylbromide: <i>n</i> -propyl bromide					A	106-94-5		R2
1,1'-biphenyl-4,4'-diamine					P3	92-87-5	C1	
1,2-benzenedicarboxylic acid, dipentylester, branched and linear					AP	84777-06-0		R2
1,2-benzenedicarboxylic acid anhydride (phthalic anhydride)	-	1			AP	88-99-3		
1,2-benzenedicarboxylic acid di-C7-11-branched and linear alkylesters					AP	68515-42-4		R2
1,2-benzophenanthrene (chrysene)	-		-		AP3	218-01-9		
1,2-butylene oxide					AP	106-88-7		
1,3-benzenediacarbonitrile (isophthalonitrile)					A	626-17-5		
1,3-butadiene (divinyl; vinylethylene; biethylene; erythrene)	1		-		AX	106-99-0	C1	M2
2-bromopropane					A	75-26-3		R1
2-bromo-2-nitropropane-1,3-diol (bronopol)					A	52-51-7		
2-butanone	200	600			A	78-93-3		
2-butoxyethanol (butyl cellosolve)	25	50			A	111-76-2		
2-butoxyethyl acetate	20	50			A	112-07-2		
2-sec-butylphenol	5	31			A	89-72-5		
2-sec-butyl-4,6-dinitrophenyl-3-methylcrotonate					AP2	485-31-4		R2
2-tert-butyl-4,6-dinitrophenol					AP2	1420-07-1		R2
2,2-bioxirane; 1,2,3,4-diepoxybutane						1464-53-5	C2	M2
2,2-bis(p-chlorophenyl)-1,1,1-trichloroethane	-	10			AP	789-02-6		
2,2-bis(p-methoxyphenyl)-1,1,1-trichloroethane	-				AP	72-43-5		
2,6-bis(hydroxymethyl)-1,3-propane diol : total inhaleable dust	-	10			AP3	72-43-5		
: respirable dust	-	4			AP3			

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	ppm	mg/m ³	ppm	mg/m ³		CAS no.	Category		
4-tert-butylcatechol					AP	98-28-3			
6-sec-butyl-2,4-dinitrophenol					AP2	88-85-7			R2
banana oil (iso amyl acetate)	-		-		AP3	628-63-7			
barium compounds, soluble (as Ba)	-	0.5			P2	7440-39-3			
barium sulphate : respirable dust	-	4			P2	7727-43-7			
: total inhalable dust	-	10			P2	7727-43-7			
bauxite	-		-		P3	1318-16-7			
baygon (propoxur)	-	0.5			P3	114-26-1			
baytex, see fenthion	-		-		AP3	55-38-9			
beech wood dust	-	5			P3				
benomyl (iso)	-	10			P2	17804-35-2		M2	R2
benzaldehyde	-		-		A	100-52-7			
benzene* (benzol) & derivatives	1		-		A	71-43-2	C1	M2	
benzene-1,2,4-tricarboxylic acid 1,2-anhydride	-	0.04			AP3	552-30-7			
benzenethiol	0.5	2.3			A	108-98-5			
benzidine production	-		-		AP3	92-87-5	C1		
benzidine based azo dyes					AP3	92-87-5	C2		
benzo-(a)-anthracene	-		-		AP3	56-55-3	C2		
benzo-(a)-pyrene	-		-		AP3	50-32-8	C2	M2	R2
benzo(e)pyrene					AP3	192-97-2	C2		
benzo-(b)-fluoranthene; benzo(e) acephenanthrylene	-		-		AP3	205-99-2	C2		
benzo-(j)-fluoranthene	-		-		AP3	205-82-3	C2		
benzo-(k)-fluoranthene	-		-		AP3	207-08-9	C2		
p-benzoquinone	0.1	0.45			AP2	106-51-4			
benzol pyrene	-		-		AP3	50-32-8			
benzotrifluoride					AP2	98-07-7			
benzyl alcohol					A	100-51-6			

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	ppm	mg/m ³	ppm	mg/m ³					
benzoyl chloride	0.5	2.6			AEP2	98-88-4			
benzoyl peroxide (dibenzoyl peroxide)	-	5			P2	94-36-0			
benzyl bromide	-		-		ABP2	100-39-0			
benzyl butyl phthalate, BBP	-	5			AP2	85-68-7			R2
benzyl chloride	0.5	2.6	1.5	7.9	AP2	100-44-7			
Beryllium		0.002			SCBA	7440-41-7	C2		
Beryllium Compounds		0.002			SCBA	7440-41-7	C2		
Beryllium Oxide		0.002			SCBA	1304-56-9	C2		
BGE (n-butyl glycidyl ether)	25	135			AP	2426-08-6			
γ-BHC (lindane)	-	0.1			AP	58-89-9			
biethylene (1,3-butadiene)	1		-		AX	106-99-0			
binapacryl (iso)					AP2	485-31-4			R2
biphenyl (diphenyl; phenylbenzene; bibenzene; xenene; PHPH)	0.2	1.3			AP2	92-52-4			
biphenyl-4,4'-ylenediamine					AP2	92-87-5	C1		
biphenyl-4-ylamine					AP2	92-67-1	C1		
bis (2-chloromethyl) ether	0.001	0.005			AP3	111-44-4			
bis (2-dimethylamino ethyl) ether					AP3	3033-62-3			
bis (2-ethylhexyl) phthalate	-	5		10	P3	117-81-7			
bis (2-ethylhexpropyl) ether*	0.1	0.54			AP2				
bis(2,3-epoxypropyl) ether	0.1	0.54			A	2238-07-5			
bis (chloromethyl) ether (BCME)	0.001	0.005			AX	542-88-1			
bismuth telluride	-	10			P3	1304-82-1			
bismuth telluride, selenium doped	-	5			P3	1304-82-1			
bituminous coal tar	-		-		AP3				
bleach (sodium hypochlorite)	-		-		BP2	7681-52-9			
borate anhydrous	-	1			P3	1330-43-4			

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	ppm	mg/m ³	ppm	mg/m ³				
borate decahydrate	-	5			P3	1303-96-4		
borate pentahydrate	-	1			P3	12179-04-3		

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	ppm	mg/m ³	ppm	mg/m ³			

borates, tetra, sodium salts : anhydrous	-	1			P3	1330-43-4		
: decahydrate	-	5			P3	1303-96-4		
: pentahydrate	-	1			P3	12179-04-3		
borax	-		-		P2	1303-96-4		
boric acid	-		-		P2	10043-35-3		
bornan-2-one	2	13	3	19	AP2	76-22-2		
boron oxide (diboron trioxide; boric anhydride)	-	10			P2	1303-86-2		
boron tribromide			1	10	<i>Air Fed</i>	10294-33-4		
boron trifluoride (trifluoroborane)					<i>Air Fed</i>	7637-07-2		
bromacetone	-		-		A	598-31-2		
Bromacil (iso)	1	11	2	22	BP	314-40-9		
bromine	0.1	0.66	0.2	1.3	BP3	7726-95-6		
Bromine pentafluoride					<i>Air Fed</i>	7789-30-2		
bromochloromethane (withdrawn from use)	200	1,080			AX	74-97-5		
bromoethane	200	906			AX	74-96-4		
bromoethylene	5	20			AXP	593-60-2	C2	
bromoform (tribromomethane)	0.5	5.3			A	7637-07-2		
bromomethane	5	20	15	59	AX	74-83-9		
bromotrifluoromethane					<i>Air Fed</i>	75-63-8		
bromotoluene	-		-		AB	100-39-0		
brown coal tar	-		-		AP3	8007-45-2		
bupimate (herbicide) (5-butyl-2-(ethylamino)-6-methyl-4-pyrimidinyl dimethylsulphate)					P3	41483-43-6		
butyraldehyde	-		-		A	123-72-8		

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	ppm	mg/m ³	ppm	mg/m ³				
buta-1, 3-diene* (1,3-butadiene; vinyl ethylene)*	10	22			AX	106-99-0		
butane (containing >0.1% butadiene)	600	1,450	750	1810	AX	106-97-8	C1	M2
butanethiol	-		-		BP2	109-79-5		
butan-1-ol (<i>n</i> -butyl alcohol)			50	154	A	71-36-3		
butan-2-ol, (2-butanol; sec butanol)	100	308	150	462	A	78-92-2		
butan-2-one	200	600	300	899	A	78-93-3		
<i>tert</i> -butanol (2-methylpropan-2-ol; trimethyl carbinol)	100	308			A	75-65-0		
butanone (methyl ethyl ketone)	200	590			A	78-93-3		
<i>n</i> -butyl acetate	1	5	5	26	A	141-32-2		
<i>sec</i> -butyl acetate	200	966	250	1210	A	105-46-4		
<i>tert</i> -butyl acetate	200	966	250	1210	A	540-88-5		
butyl acrylate (butyl-2 propenoate; butyl ester of acrylic acid)	1	5	5	26	A	141-32-2		
<i>n</i> -butyl alcohol			50	154	A	71-36-3		
<i>sec</i> -butyl alcohol	100	308			A	78-92-2		
<i>tert</i> -butyl alcohol	100	308			A	75-65-0		
butylamine	5	15			A/K	109-73-9		
butyl benzyl phthalate (butyl phenylmethyl)	-	5			AP2	85-68-7		
butyl cellosolve	25	120			AP2	111-76-2		
<i>n</i> -butyl chloroformate	1.0	5.7			A	592-34-7		
butylglycidyl ether	25		-		A	2426-08-6		
butyl glycol	25	120			A	111-76-2		
butyl glycol acetate	-		-		AP	112-07-2		
butyl lactate (lactic acid butylester)	5	30			A	138-22-7		
butyl mercaptan (<i>n</i> -butanethiol; 1-mercaptobutane)	0.5	1.5			B	109-79-5		
butyl-2, 3-epoxypropyl ether (<i>n</i> -butyl glycidyl ether)	25	135			AP	2426-08-6		
butylamine (1-aminobutane)			5	15	A/K	109-73-9		

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			
butylenes oxide					AP	109-99-9	
butylenes (1-butene; ethylethlene)					<i>Air Fed</i>	106-98-9	
butyric acid	-		-		A	107-92-6	
butyraldehyde					A	123-72-8	
<i>n</i> -butanol	50	150			AP2	71-36-3	
<i>n</i> -butyl acetate	150	724	200	966	A	123-86-4	
<i>n</i> -butyl alcohol			50	154	A	71-36-3	
<i>n</i> -butyl chloroformate	1	5.7			A	592-34-7	
<i>n</i> -butyl glycidyl ether (BGE)	25	135			A	2426-08-6	
<i>n</i> -butyl lactate	5	30			A	34451-19-9	
<i>p</i> -tert butyltoluene	10	60			AP3	98-51-1	
sec-butyl alcohol (butan-2-ol)	100	308			A	14898-79-4	
tert-butyl alcohol (2-methylpropan-2-ol)	100	308			AP	75-65-0	
tert-butyl chromate	-		-		P3	1189-85-1	
<i>trans</i> -but-2-enal	2	6			A	123-73-9 4170-30-3	

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP	C						
o-chlorotoluene	50	264			ABP3	100-44-7	
1-chloro-1-nitropropane	20	100			B	600-25-9	
1-chloro-2, 3-epoxypropane (epichlorohydrin)*	0.5	1.9	1.5	5.8	AP	106-89-8	C2
1-chloro-2-nitrobenzene		1			AP	88-73-3	
1-chloro-3-nitrobenzene		1			AP	121-73-3	
1-chloro-4-Nitrobenzene	-	1		2	AP2	100-00-5	
1,3-cyclopentadiene	75	200			AXP3	542-92-7	
2-chloro-2',6'- diethyl- <i>n</i> -methoxymethylacetanilide (herbicide)					P3	15972-60-8	
2-chloro-6 (trichloromethyl)-pyridine	-	10			AP3	1929=82-4	
2-chloroacetophenone	0.05	0.32			AP2	532-27-4	
2-chloroallyl diethyldithiocarbamate	-		-		AP	95-06-7	
2-chlorobuta-1,3-butadiene	10	37			AX	126=99-8	
2-chloro-ethylamino-6-isopropylamino-1,3,5-triazine (herbicide)		10			P	1912=24-9	
2-chloro-1,1,1,2-tetrafluoroethane						2387-89-0	
2-chloroethanol			1	3.4	A	107-07-3	
2-chloropropionic acid					A	598-78-7	
2-chlorotoluene	50	264			A	95-49-8	
3-chloro-1-propene	-		-		AX	107-05-1	
3-chlorotoluene	50	264			ABP	108-41-8	
4-chloraniline						106-47-8	C2
4-chloro- <i>o</i> -toluidine						95-69-2	C2
4-chloro- <i>o</i> -toluidine hydrochloride						3165-93-2	C2
5-chlor-2-methyl-4-isothiazolin-3-one (pesticide)		0.076			AP3	26172-55-4	

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	ppm	mg/m ³	ppm	mg/m ³					
6-chloro- <i>n</i> -ethyl- <i>n</i> '-(1-methylethyl)-1,3,5-triazine-2,4-diamine		10			P				
6-(2-chloroethyl)-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane; etacelsil						37894-46-6			R2
C.I. pigment yellow 34					P3	1344-37-2			R1
C.I. pigment red 104					P3	12656-85-8			R1
cadmium (pyrophoric)		0.025			P3	7440-43-9	C2		
cadmium carbonate	-	0.025			P3	513-78-0			
cadmium chloride		0.025			P3	10108-64-2	C2	M2	R2
cadmium fluoride		0.025			P3	7790-79-6	C2	M2	R2
cadmium hydroxide	-	0.025			P3	21041-95-2			
cadmium sulphate		0.025			P3	10124-36-4	C2	M2	R2
cadmium sulphide & cadmium sulphide pigments *	-	0.03			P3	1306-23-6	C2		
cadmium and compounds*	-	0.025			P3	7440-43-9			
cadmium oxide (fume)*	-	0.025		0.05	P3	1306-19-0	C2		
caesium hydroxide	-	2			P2	21351-79-1			
calcium carbonate : respirable dust	-	4			P2	471-34-1			
: total inhalable dust	-	10			P2	471-34-1			
calcium chromate					P3	13765-19-0	C2		
calcium cyanamide (lime nitrogen; calcium carbimide)	-	0.05		1	P3	156-62-7			
calcium hydroxide (hydrated lime; caustic lime)	-	5			P2	1305-62-0			
calcium hypochlorite (calcium hypochloride, iosantin, bleaching powder)					BP2/3	7778-54-3			
calcium oxide (quicklime; pebble lime)	-	2			P2	1305-78-8			
calcium silicate (Portland cement) : respirable dust	-	4			P2	10101-39-0			
: total inhalable dust	-	10			P2	10101-39-0			
calcium, inorganic compounds and fumes	-	0.05			P3	7440-70-2			
camphor (bornan-2-one)	2	13			AP2	76-22-2			

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	ppm	mg/m ³	ppm	mg/m ³					
e-caprolactam : dust only	-	1			AP2	105-60-2			
: vapour only	5	23			AP2	105-60-2			
: dust & vapour	-	10			AP2	105-60-2			
captafol (difolatan)	-	0.1			P3	2425-06-1	C2		
captan	-	5		15	P2	133-06-2			
carbadox (inn)					P2/P3	6804-07-5	C2		
carbaryl (serving)	-	5			BP	63-25-2			
carbazote (9-azafurine, diphenyleneimine)						86-74-8			
carbofuran (furadan)	-	0.1			P3	1563-66-2			
carbolic acid (phenol; hydroxybenzene)	5	20			AP3	108-95-2			
carbomethane					<i>Air Fed</i>	463-51-4			
carbon black & coal dust	-	3.5		7	P2	1333-86-4 7440-44-0			
carbon dioxide	5,000	9,150	15,000	27,400	<i>Air Fed</i>	124-38-9			
carbon disulphide* (carbon bisulfide)	10	32			BP3	75-15-0			
carbon monoxide	30	35	200	232	<i>Air Fed</i>	630-08-0			
carbon tetrabromide (tetrabromomethane)	5	20			A	558-13-4			
carbon tetrachloride	2	13			A	56-23-5			
Carbonyl chloride (phosgene)	0.02	0.08	0.06	0.25	<i>Air Fed</i>	75-44-5			
carbonyl diamide (urea)	-		-		AP	57-13-6			
carbonyl fluoride	-		-		B	353-50-4			
castor oil					P2	8001-78-3 8001-79-4			
catechol (pyrocatechol)	5	23			AP2	120-80-9			
caustic potash	-			2	BP2	1310-58-3			
caustic soda	-			2	AP3	1310-73-2			

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	ppm	mg/m ³	ppm	mg/m ³			
cellosolve (ethyleneglycol; monoethylether)	10	37			AP2	110-80-5	
cellosolve acetate	10	55			AP2	111-15-9	
cellulose pure : respirable dust	-	4			P2	9004-34-6	
: total inhalable dust	-	10		20	P2	9004-34-6	
Ceramic wool fibre					P3		
cesium hydroxide (cesium hydrate)	-		-		AP2	21351-79-1	
chlorobenzene (benzene chloride; chlorobenzol; phenylchloride)	1		3		AP	108-90-7	
chloroacetic acid (monochloroacetic acid)	0.3	1.2			AP2	79-11-8	
chlordane (iso) (banned in 1992)	-	0.5			AP	57-74-9	
chlordecone					P3	143-50-0	
chlorfenapyr (acaricide) (4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethyl-1H-pyrrole-3-carbonitrile)						122453-73-0	
chlorfenvinphos (insecticide)					A2P2	470-90-6	
chlorinated biphenyls (42%chlorine)	-	0.1			AP3	53469-21-8	
chlorinated camphene (banned in 1964)	-	0.5			AP2	8001-35-2	
chlorinated diphenyl oxide	-	0.5			AP2	55720-99-5	
chlorine			0.5	1.5	B	7782-50-5	
chlorine dioxide	0.1	0.28	0.3	0.84	B	10049-04-4	
chlorine soda				2	AP3	1310-73-2	
chlorine trifluoride			0.1	0.38	B	7790-91-2	
chloroacetaldehyde			1	3.3	A	107-20-0	
chloroacetone	-		-		AX	628-09-1	
chloroacetyl chloride	0.05		-		AP3	79-04-9	
chloroalkanes (C10 – C13)	-		-		AP	61788-76-9	
chlorobenzylidene malononitrile (CS)	-		-		AB	2698-41-1	
chlorobenzene (chlorobenzol)	1		3		A	108-90-7	
p-chlorobenzotrichloride						5216-25-1	C2

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	ppm	mg/m ³	ppm	mg/m ³			
chlorobromomethane (bromochloromethane)	200	1080			AX	74-97-5	
chlorodifluoromethane	1,000	3,590			<i>Air Fed</i>	75-45-6	
chlorodimethyl ether	-		-		AX	107-30-2	
chlorodiphenyl (42% chlorine)	0.1	1			AP3	53469-21-9	
chlorodiphenyl (54% chlorine)	0.05	0.5			AP3	11097-69-1	
chloroethane	50				AX	75-00-3	
chloroethylene (vinyl chloride)	7		-		AX	75-01-4	C1
chlorofluoromethane					<i>Air Fed</i>	593-70-4	
chloroform (trichloromethane)	2	9.9			AX	67-66-3	
chloromethane	50	105	100	210	<i>Air Fed</i>	74-87-3	
Bis-(chloromethyl) ether						542-88-1	C1
chromomethyl ether : chlorodimethyl ether						107-30-2	C1
p-chloronitrobenzene					AP2	100-00-5	
chloronitropropane	20	100			B	600-25-9	
chloropentafluoroethane					<i>Air Fed</i>	76-15-3	
chloropicrin (trichloronitromethane)	0.1	0.68			A	76-06-2	
chloroprene (2-chlorobuta-1,3-diene)	10	37			AX	126-99-8	C2
chlorosulphonic acid (chlorosulphuric acid)	-	1			EP3	7790-94-5	
chlorothalonil (fungicide)					AP3	1897-45-6	
a-chlorotoluene	1				A	100-44-7	
chlorotrifluoroethylene						79-38-9	
chlorotrifluoroethylene					<i>Air Fed</i>	75-72-9	
chlorpyrifos	-	0.2		0.6	AP3	2921-88-2	
chlorpyrifos-methyl (0,0-dimethyl 0-3,5,6 trichloro-2-pyridol-phosphorothiate) (herbicide)					AP3	5598-13-0	

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	ppm	mg/m ³	ppm	mg/m ³					
chlorox (bleach)					BP2/3	8007-59-8			
christobalite (silica, dust-respirable crystalline)	-	0.08			P3	14464-46-1			
chromates, certain insoluble forms	-	0.5			P3	EDF-224			
chromic acids (Cr(VI))*	-	0.05			P3	1333-82-0			
chromium	-	0.5			P3	7440-47-3			
chromium (II) compounds (as Cr)	-	0.5			P3	7440-47-3			
chromium (III) compounds (as Cr)	-	0.5			P3	7440-47-3			
chromium(III) chromate; chromic chromate		0.5			P3	24613-89-6	C2		
chromium (VI) compounds (as Cr) *	-	0.05			P3	7440-47-3	C2		
chromium (VI) trioxide		0.05			P3	1333-82-0	C1	M1	
chromium metal	-	0.5			P3	7440-47-3			
chromyl dichloride; chromic oxychloride						14977-61-8	C2	M2	
chrysene (1,2,5,6-dibenzonaphthalene; 1,2-benzophenanthrene)	-			-	AP3	218-01-9	C2		
chrysotile (WHITE ASBESTOS)	-			0.1f/ml per 4hr	P3	1332-21-4			
CI direct black 36						1937-37-7	C2		
CI direct blue 6						2602-46-2	C2		
CI direct red 28						573-58-0	C2		
CI direct brown 95						16071-86-6	C2		
CI basic violet 3 with Michler's ketone						548-62-9	C2		
cinene (dipentene; limonene)	-			-	AP	138-86-3 5989-27-5			
cinidon-ethyl (herbicide)						132057-06-8			
citric acid					P3	77-92-9 5949-29-1			
Clofentezine (acaricide)						74115-24-5			
clopidol (croyden)	-			-	P2	2971-90-6			

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	ppm	mg/m ³	ppm	mg/m ³			
Clopyralid (3,6 dichloropicolinic acid) (herbicide)					P2	1702-17-6	
coal dust : respirable dust	-	2			AP3	8001-58-9	
coal tar pitch	-	0.14			P2/3	7440-48-4	
cobalt and compounds*	-	0.1			P3	10210-68-1	
cobalt carbonyl		0.1			P3	7646-79-9	C2
cobalt dichloride		0.1			P3	16842-03-8	
cobalt hydrocarbonyl		0.1			P3	10124-43-3	C2
cobalt sulphate		0.1			AP	1065-31-2	
colophony (rosin solder fume)	-	0.05			P3	7440-50-8	
copper fume	-	0.2			P3	7440-50-8	
copper particulate	-	1		2	P3	7440-50-8	
cotton dust*	-	2.5			P2	136-78-7	
crag herbicide (2-(2,4-dichlorophenoxy)-ethyl sodium sulphate) : total inhaleable dust	-	15			P2	136-78-7	
: respirable dust		5				120-71-8	C2
p-cresidine					AP2	8001-58-9	
creosote(coal tar)	-	0.14			AP2	8021-39-4	
creosote (wood tar)		0.14			AP3	1319-77-3	
cresol (all isomers) (cresyllic acid)	5	22			P3	14808-60-7	
cristobalite	-	0.3			P3	12001-28-4	
crocidolite (BLUE ASBESTOS)	-			0.1f/ml per 4hr	A	123-73-9	
crotonaldehyde	2	6			P2	299-86-5	
crufomate (rueylene)	-		-		Air Fed	76-14-2	
cryofluorane (inn)	1,000	7,110	1,250	8,890	A	98-82-8	
cumene (isopropyl benzene; propane,2-phenyl)	25	125	50	250		80-15-9	
cumene hydroperoxide							

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	ppm	mg/m ³	ppm	mg/m ³			
cyanamide (cyanogenamide; carbanonitrile) (herbicide)	0.58	1			BP	420-04-2	
cyanides except hydrogen cyanide; cyanogens; cyanogens chloride	-	5			BP	57-12-5	
cyanogens (oxalonitrile; dicyanogen)					<i>Air Fed</i>	460-19-5	
cyanogens chloride			0.3	0.77	B	506-77-4	
cyanomethane (acetonitrile)	40	68			AP	75-05-8	
cyclanilide (pesticide)						113136-77-9	
cyclohexane	100	350	300	1,050	A	110-82-7	
cyclohexanethiol						1569-69-3	
cyclohexanol (hexalin; hydralin; cyclohexyl alcohol)	50	208			AP2	108-93-0	
cyclohexanone (pimelic ketone; cyclohexyl ketone)	10		20		A	108-94-1	
cyclohexatriene (benzene; benzol)	5	16			A	71-43-2	
cyclohexene (benzene tetrahydride; tetrahydrobenzene)	300	1,020			A	110-83-8	
cycloheximide						66-81-9	R2
cyclohexylamine	10	41			A	108-91-8	
cyclohexylmethane (hexahydrotoluene; methyl cyclohexane)	400	1,600			AP	108-87-2	
cyclonite . RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	-	1.5			P2	121-82-4	
cyclopentadiene	75	200			AXP3	77-73-6	
cyclopentane					AX	287-92-3	
cyhalofopbutyl (herbicide)						122008-85-9	
cyhalothrin					AP3	68085-85-8	
<i>g</i> -cyhalothrin (insecticide)					AP3	76703-62-3	
<i>l</i> -cyhalothrin (insecticide)					AP3	91465-08-6	
cyhalothrin/karate					AP3	68085-85-8	
cyhexatin (pifctran)	-	5			P2	13121-70-5	
<i>o</i> -chlorobenzylidene malononitrile	-		-		AP2	2698-41-1	
2-chlorostyrene	50	285			AP3	2039-87-4	

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	ppm	mg/m ³	ppm	mg/m ³				
3-chlorostyrene	50	285			AP3	2039-85-2		
4—chlorostyrene	50	285			AP3	1073-67-2		

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FILTER SELECTION GUIDE

Scroll Down These Pages Until You Find The Chemical/s You Are Looking For

CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category		
	ppm	mg/m ³	ppm	mg/m ³					

TOP	<i>D</i>								
2,4-D (iso) (dichlorophenoxyacetic acid)	-	10		20	AP3	94-75-7			
2,4-des (sodium 2-(2,4-dichlorophenoxy)ethyl sulphate	-	10			AP2	149-29-6			
o, dichlorobenzene (1,2-dichlorobenzene; DCB)			50	306	A	95-50-1			
1,1-dichloro-1-nitro-ethane	100	60			ABEK1P3	594-72-9			
1,1-dichloroethane (ethylidene chloride)	100				AX	75-34-3			
1,1-dichloroethane dimethyl ether	10		-		AXP3				
1,1-dichloroethylene (vinylidene chloride)	10	40			AXP3	75-35-4			
1,1-dimethylhydrazine	-		-		K	57-14-7			
1,2-dibromo-3-chloropropane	-		-		AP	96-12-8	C2	M2	R1
1,2-dibromo-2,2-dichloroethylmethylphosphate.	-	3			AP	300-76-5			
1,2-dibromoethane (ethylene dibromide) *	0.05	3.9			A	106-93-4			
1,2-diaminoethane	10	25			A	107-15-3			
1,2-dichlorobenzene (orthodichlorobenzene)	25	153	50	306	A	95-50-1			
1,2-dibromoethane* (ethylene dibromide)	0.5	3.9			AP3	106-93-4	C2		
1,2-diaminoethane (dimethyldiamine; 1,2-ethane diamine)	10	25			KP2	107-15-3			
1,2-dichlorotetra-fluoroethane (Cryofluorine; Freon 114)	1,000	7,110			AXP3	76-14-2			
1,2-dichloroethane* (Ethlene dichloride) *	5	21			AP3	107-06-2	C2		
1,2-dichloroethylene,cis : trans isomers 60:40 *	200	806	250	1,010	AX	540-59-0			
1,2-dichloropropane (propylene dichloride)	75	350			A	78-87-5			
1,2-dichlorotetrafluoroethane (cryofluorane)					<i>Air Fed</i>	76-14-2			
1,2-dihydroxyethane (ethane-1,2-diol)	-	10			AP3	107-21-1			
1,2-dimethylhydrazine	-		-		K	540-73-8	C2		
1,2-dimethoxyethane; ethylene glycol dimethyl ether, EGDME					A	110-71-4			R2
1,2:2,4-diepoxybutane						1464-53-5	C2	M2	

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	ppm	mg/m ³	ppm	mg/m ³					
1,2,5,6-dibenzonaphthalene (chrysene)	-		-		AP3	218-01-9			
1,3-dichloro-2-propanol	-		-		A	96-23-1	C2		
1,3-dichloro-5,5-dimethyl hydantoin (dactin; halane)	-	0.2		0.4	P3	118-52-5			
1,3-dichloropropene	1	5			AP3	542-75-6			
1,3-dimethylbutyl acetate	50	299			A	108-84-9			
1,4-dichlorobenzene (para-dichlorobenzene)	25	153	50	306	AP	106-46-7			
1,4-dichlorobut-2-ene						764-41-0	C2		
1,4-dioxane, tech. Grade	25	91	100	366	A	123-91-1			
2-diethylaminoethanol	10	49			A	100-37-8			
2,2'-diaminodiethylamine (2,2'-Iminodi(ethylamine))	1	4.3			AKP3	111-40-0			
2,2'-dichloro-4,4'-methylenedianiline (MbOCA)	-	0.005			AP3	101-14-4	C2		
2,2-dichloropropionic Acid (Dalapon; 2,2-DPA)	1	6			P2	75-99-0			
2,3-dibromopropan-1-ol; 2,3-dibromo-1-propanol					AXP	96-13-9	C2		
2,3-dimethylbutane	200	700				79-29-8			
2,3-dinitrotoluene					AP3	602-01-7	C2		
2,4-des	-				P	149-26-8			
2,4-diaminoanisole						615-05-4	C2		
2,4-diaminoanisole sulphate						39156-41-7	C2		
2,4-diaminotoluene						95-80-7			
2,4-dichlorophenyl 4-nitrophenyl ether					ABP	1836-75-5	C2		R2
2,4-dichlorophenoxyacetic acid (2,4-D (iso))	-	10			AP3	94-75-7			
2,4-dinitrotoluene, dinitrotoluene, technical grade					AP3	121-14-2	C2		
2,5-dinitrotoluene					AP3	619-15-8	C2		
2,6-dimethylheptan-4-one	25	148			A	108-83-8			
2,6-dinitrotoluene					AP3	606-20-2	C2		
2,6-di-tert-butyl-p-cresol (butylated hydroxytoluene)	-	10			P2	128-37-0			
2-n-dibutylaminoethanol	2	14			AP	102-81-8			

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3,3-dichlorobenzidine					<i>Air Fed</i>	91-94-1	C2
3,3-dichlorobiphenyl-4,4-ylenediamine					<i>Air Fed</i>	91-94-1	C2
3,3'-dimethoxybenzidine					P3	119-90-4	C2
3,3'-dimethylbenzidine (o-tolidine)						119-93-7	C2
Salts of 3,3'-dimethylbenzidine (salts of o-tolidine)	-		-		AP3	119-93-7	C2
3,4- dinitrotoluene					AP3	610-39-9	C2
3,5-dinitrotoluene					AP3	618-85-9	C2
3,5-dinitro-o-toluamide (zoalene; dinitolmide)	-		-		P2	148-01-6	
4,4'-diaminobiphenyl					P3	92-87-5	C1
4,4'-diaminodiphenyl-methane (DADPM)					<i>Air Fed</i>	101-77-9	C2
4,4'-bis(dimethylamino)benzophenone: Michler's ketone	-					90-94-8	C2
4,4'-diarylazobiphenyl dyes					AP3		C2
6,6-di-tert-butyl-4,4-thiodi-m-cresol		10		20	P2	96-69-5	
DDM (4,4'-methylenedianiline)					<i>Air Fed</i>	101-77-9	
DDT (4,4-dichlorodiphenyltrichloroethane)	-	1			AP	50-29-3	
DDVP, see dichlorvos	0.1	0.92			P3	62-73-7	
decaborane	0.05	0.3			BP3	17702-41-9	
decahydrate	-	5			A	1303-96-4	
decane	-		-		AP	124-18-5	
deltamethrin (insecticide)						52918-63-5	
demeton	0.01	0.1			ABP3	8065-48-3	
DEG (diethylene glycol)(2,2-oxydiethanol)	23	101			AP3	111-46-6	
derris commercial (rotenone)	-	5			AP	83-79-4	
DGE (bis(2,3-epoxypropyl)ether)	0.1	0.54			AP3	2238-07-5	
diacetone alcohol (4-hydroxide-4methyl-2-pentonone)	50	241			A	123-42-2	

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dialkyl 79 phthalate	-	5			AP3	83968-18-7	
diallyl phthalate	-	5			AP2	131-17-9	
diaminotoluene (methyl-phenylenediamine)						25376-45-8	
diammonium peroxodisulphate (measured as S2O8)	-	1			P2	7727-54-0	
o-dianisidine	-		-		P3	119-90-4	C2
diarsenic trioxide; arsenic trioxide	-		-		P3	1327-53-3	C1
diatomaceous earth (respirable dust)	-	1.2			P	61790-53-2	
diazinon (iso)	-	0.1			AP3	333-41-5	
diazomethane	0.2	0.4			BP3	334-88-3	C2
diazinon	-	0.1			AP3	333-41-5	
dibenz(a,h)anthracene	-		-		AP	53-70-3	C2
dibenzoyl peroxide	-	5			P2	94-36-0	
dibismuth tritelluride	-	10		20	P2	1304-82-1	
dibismuth tritelluride selenium doped	-	5			P3		
diborane					Air Fed	19287-45-7	
diboron trioxide	-	10		20	P2	1303-86-2	
dibrom (naled)	-	3			AP3	300-76-5	
dibromodifluoromethane	100	872			AX	75-61-6	
di-n-butylamine						111-92-2	
dibutyl hydrogen phosphate (Di-n-butyl phosphate)	1	8.7	2	17	AP2	107-66-4	
dibutyl phthalate (dibutyl -1,2-benzene dicarboxylate); DBP	-	5		10	AP3	84-74-2	R2
dicamba (3,6-dichloro-o-anisic acid) (herbicide)					AP3	1918-00-9	
dichloroacetylene			0.1	0.39	Air Fed	7572-29-4	
dichloroethyl ether (BCEE)		5			AP3	111-44-4	
dichlorodifluoromethane (FC-2)		1,000			AXP3	75-71-8	
Dichlorofluoromethane (FC-2)	10	43			Air Fed	75-43-4	

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dichlorodiphenyl-trichloroethane	-	1			AP	50-29-3		
dichloromethane (meth chlor) *	100	350	300	1,060	AXP3	75-09-2		
diclorophen (4,4'-dichloro-2,2'-methylene-diphenol)					AP3	97-23-4		
dichloroprop (herbicide)					P3	120-36-5		
dichloropropane (propylidene-chloride)	75	350			AP	78-87-5		
dichloropropene	1	5			AP3	542-75-6		
dichlorotetrafluoroethane						76-14-2		
dichlorvos (iso) (DDVP)	0.1	0.92			AP3	62-73-7		
dicrotophos (bidrin)	-		-		P3	141-66-2		
dicyclohexyl phthalate	-	5			P3	84-61-7		
dicyclopentadienyl iron (ferrocene)	-	10			P2	102-54-5		
dicyclopentadiene (3a,4,7,7a-tetrahydro-4,7-methano-1h-indene)	5	27			A	77-73-6		
dicyclopentadienyliron (ferrocene)	-	10			AP3	102-54-5		
dieldrin	-	0.25			AP3	60-57-1		
diethanolamine (2,2'-iminodiethanol)	3	13			AB	100-37-8		
diethyl ether (ethyl ether)	100	310	200	620	AX	60-29-7		
diethylene oxide (tetrahydrofuran)	100	300			AP3	109-99-9		
diethylamine	5	15	10	30	KP3	109-89-7		
di-(2-ethylhexyl) phthalate	-	5			P3	117-81-7		
diethyl ketone (metacetone; propione; ethyl propionyl)	200	716			A	96-22-0		
diethylmethyImethane (hexane)					AP	96-14-0		
diethyl phthalate (ethylphthalate)	-	5		10	AP2	84-66-2		
diethyl sulphate *	0.05	0.32			AP3	64-67-5	C2	M2
diethylene dioxide (1,4-dioxane)	25	90			AP3	123-91-1		
diethylene glycol	23	101			A	111-46-6		
diethylene glycol monobutyl ether	-	180			AP2	112-34-5		
diethylenetriamine (2,2-Iminodiethylamine)	1	4.3			A	111-40-0		

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difluorodibromomethane (halon -1202; Freon -12B2)	100	872			AXP3	75-61-6	
difluoromethane						75-10-5	
difluorodichloromethane	1,000	5,030			AXP3	75-71-8	
diglycidyl ether (Bis (2-ethylhexpropyl) ether) *	0.1	0.54			A	2238-07-5	
dihydrogen selenide	0.02		0.05		B/EP3	7783-07-5	
<i>m</i> -dihydroxybenzene (resorcinol)	10	46			AP	123-31-9	
<i>o</i> -dihydroxybenzene (pyrocatechol)	5	23			AP	120-80-9	
<i>p</i> -dihydroxybenzene (hydroquinone)	-	2			AP	123-31-9	
diisobutyl ketone (2,6-dimethylheptan-4-one)	25	148			A	108-83-8	
diisobutyl phthalate	-	5			AP2	84-69-5	
diisodecyl phthalate	-	5			P2	26761-40-0	
diisononyl phthalate	-	5			P2	28553-12-0	
diisooctyl phthalate	-	5			P2	27554-26-3	
diisopentylphthalate					AP	42925-80-4	R2
diisopropylamine	5	21			A	108-18-9	
diisopropyl ether	250	1,060	310	1,310	A	108-20-3	
di-linear 79 phthalate	-	5			P2		
DMDT (methoxychlor (iso)	-	10			AP	72-43-5	
dimethoate (insecticide)					AP	60-51-5	
dimethoxymethane (Methylal; Formal)	1,000	3,160	1,250	3,950	AX	109-87-5	
dimethylamine	2	3.8	6	11	K	124-40-3	
dimethylaminobenzene (xylydene)	2	10			AP3	1300-73-8	
dimethylaminopropionitrile						1738-25-6	
<i>nn</i> -dimethylacetamide	10	36	20	72	AP3	127-19-5	R2
dimethylaminoethanol	2	7.4			K	108-01-0	
<i>nn</i> -dimethylaniline (dimethylphenylamine)	5	25	10	50	AP2	121-69-7	

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dimethyl ether	400	766	500	958	<i>Air Fed</i>	115-69-7	
dimethylethoxysilane						14857-34-2	
<i>nn</i> -dimethylethylamine	10	30	15	46	K	598-56-1	
dimethyl formamide; <i>n,n</i> -dimethylformamide	10	30	20	61	A	68-12-2	R2
dimethyl hydrazine	-		-		K	57-14-7	C2
dimethylketone (acetone)	500	1,210			AXP	67-64-1	
dimethylnitrosoamine	-		-		AP3	62-75-9	C2
dimethyl phthalate (DMP)	-	5		10	AP2	131-11-3	
dimethylsiloxane (silicone rubber)					P	9016-00-6	
dimethyl sulphate*	0.05	0.26			AP2	77-78-1	C2
dimethylbenzene (<i>m,o,p</i> -Xylene)	100	441			AP3	8026-09-3	
dimethylcarbamoyl chloride	-		-		AP3	79-44-7	C2
dimethylformamide	10	30			AP2	68-12-2	
dimethyl sulfamoyl chloride	-		-		AP	13360-57-1	C2
dinickel trioxide	-		-		P3	1314-06-3	C1
dinitrobenzene (all isomers)	0.15	1.0	0.5	3.5	AP2	25154-54-5	
dinitro- <i>o</i> -Cresol (2-Methyl-4,6-dinitrophenol)	-	0.2			BP	534-52-1	
dinitrotoluene (DNT; methyl dinitrobenzene; dinitrotoluol)	-		-		P2	25321-14-6	C2
dinocap (ISO)						39300-45-3	R2
dinonyl phthalate	-	5			P2	84-76-4	
dinoseb						88-85-7	R2
dinoterb						1420-07-1	R2
dioxane (diethylene dioxide)	25	91			A	123-91-1	
dioxathion (delnav)	-	0.2			P3	78-34-2	
dipentene (d-limonene; cinene)	-		-		A	138-86-3	
di- <i>n</i> -pentyl phthalate					AP	131-18-0	R2

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diphenyl (biphenyl; phenylbenzene)	0.2	1.3			AP2	92-52-4	
diphenyl ether(vapour)	1	7.1			AP2	101-84-8	
diphenylether, octabromo derivative					AP3	32536-52-0	R2
diphenylamine	-	10		20	P2	122-39-4	
diphenylmethane-4,4-diisocyanate (MDI)					<i>Air Fed</i>	101-68-8	
diphosphorus pentasulphide	-	1		2	P2	1314-80-3	
diphosphorus pentoxide	-	1		2	P2	1314-56-3	
dipotassium peroxodisulphate (measured as S ₂ O ₈)	-	1			P2	7727-21-1	
di-sec-octyl phthalate	5				P3	117-81-7	
disodium disulphite		5			EP2	7681-57-4	
disodium peroxodisulphate (measured as S ₂ O ₈)	-	1			P2	7775-27-1	
disodium tetraborate : anhydrous	-	1			P3	1330-43-4	
: decahydrate	-	5			P3	1330-96-4	
: pentahydrate	-	1			P3	11130-12-4	
Diprom (organophosphate)	-	3			P3		
dipropylene glycol methyl ether (2-methoxymethylethoxy propanol)	50	308			AP	34590-94-8	
dipropyleneketone						123-19-3	
diquat (pesticide)					AP	2764-72-9	
diquat dibromide	-	0.5		1	AP	85-00-7	
di-sec-octyl phthalate (di-2-ethylhexylphthalate; DEMP)	-	5			P2	117-81-9	
disulfoton (iso)(disystonR)	-	0.1			P3	298-04-4	
disulfram	-	2			BP2	97-77-8	
disulphur decafluoride					<i>Air Fed</i>	5714-22-7	
disulphurdichloride			1	5.6	BP2	10025-67-9	
divinyl (1,3-butadiene; vinyethylene; erythrene; biethlene)	1			-	AX	106-99-0	
divinyl benzene (vinyl styrene; DVB)	10	54			AP	1321-74-0	

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diuron	-	10			P2	330-54-1			
divanadium pentaoxide : total inhalable dust	-	0.5			P3	1314-62-1			
: fume & respirable dust	-	0.04			P3	1314-62-1			
divinylbenzene (vinyl styrene; DVB)	10	54			A	108-57-6			
DMAC (dimethylacetamide)	10	36			AP2	127-19-5			
DMDT (methoxychlor)	-	10			P	72-43-5			
dodecane	-		-		AP	112-40-3			
dodecanoic acid (lauric acid)	-		-		AP2	143-07-7			
dodecylbenzene (1-phenyldodecane)	-		-		AP	123-01-3			
dursban 4 Insecticide (chlorpyrifos solvents)	-		-		AP2				
dust & liquid particles	-	5			P3				
dust, coal	-	2			P3				
dust, solid particles	-	5			P3				
dust, timber	-		-		P2				
dyfonate R	-	0.1			P3	944-22-9			
o-dichlorobenzene (DCB)			50	300	AP3	95-50-1			
p-dichlorobenzene (PDB)	25	153			AP3	106-46-7			

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1,2-epoxy-4-epoxyethyl-cyclohexane	10	60			AP3	106-63-8 106-87-6 25550-49-6		
1,2-epoxy-3-phenoxypropane ; phenyl glycidyl ether						122-60-1	C2	
1,2-epoxypropane* (propylene oxide; methyloxilane)	5	12			AX	75-56-9	C2	M2
2,3-epoxypropan-1-ol; glycidol; oxiranemethanol	50	150			AP3	556-52-5	C2	R2
(r)-2,3-epoxy-1-propanol	50	150			A	57044-20-4	C2	R2
2,3-epoxypropyl isopropyl ether	50	241			A	4016-14-2		
2-3-epoxypropyl phenyl ether ; phenyl glycidyl ether						122-60-1	C2	
2-ethoxyethanol* (ethylene glycol monoethyl ether)	10	37			A	110-80-5		R2
2-ethoxyethyl acetate*: (cellosolve acetate)* : ethylglycol acetate*	10	55			A	111-15-9		R2
2-ethylhexyl chloroformate	1	8			A	24468-13-1		
2-ethylhexyl 3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl methyl thio acetate						80387-97-9		R2
bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP						117-81-7		R2
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine						143860-04-2		R2
4-ethylmorpholine	5	24	20	96	A	100-74-3		
EGDN (ethylene dinitrate)	-	1.3			AP	628-96-6		
EDTA						60-00-4		
emery : respirable dust	-	4			P	1302-74-5		
: total inhalable dust	-	10			P			
endosulfan (thiodan®)	-	0.1		0.3	P3	115-29-7		
endrin (now a banned substance)	-	0.1			P3	72-20-8		
enfurane	50	383			Air Fed	13838-16-9		

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			
engine exhaust emissions					<i>Air Fed</i>		
epichlorohydrin* (1-Chloro-2,3-epoxypropane)*	0.5	1.9			AP2	106-89-8	
EPN (o-ethyl o-4 nitrophenyl phenylphosphonate)	-	0.5			AP	2104-64-5	
epoxyethane (now a banned substance)	5	10			AXP3	75-21-8	
epoxy resin					AP2	25068-38-6	
erythrene	1		-		AX	106-99-0	
esters (in general)	-		-		A		
ethane					<i>Air Fed</i>	74-84-0	
ethane-1,2-diol: (ethylene glycol) : vapour	20	52	40	104	AP2	107-21-1	
: particulates	-	10			P2	107-21-1	
ethanethiol	0.5	1.3	2	5.2	AXP3	75-08-1	
ethanoic acid (acetic acid ; methanedicarboxylic acid)	10	25			AP3	64-19-7	
ethanoic anhydride (acetic anhydride)	0.5	2.5			AP2	108-24-7	
ethanol (ethyl alcohol)	1,000	1,920			A	64-17-5	
ethanolamine (2-aminoethanol)	3	7.6			A	141-43-5	
ethene					A	74-85-1	
ethenone (ketone)					<i>Air Fed</i>	463-51-4	
ethers (diethylether; ethylether)	400	1,230			AX	60-29-7	
ethofumesate (pesticide)						26225-79-6	
ethyl acetate (acetic ether)	200		400		A	141-78-6	
ethyl acrylate (acrylic ester)	5	21	15	62	A	140-88-5	
ethyl alcohol (ethanol)	1,000	1,920			A	64-17-5	
ethyl amyl ketone (5-methyl-3-heptanone)	10		-		AP	106-68-3	
ethyl benzene (phenylethane; ethylbenzol)	100	441	125	552	A	100-41-4	
ethyl bromide (bromoethane)	200	906			AX	74-96-4	
ethyl carbamate (urethane)						51-79-6	C2

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category		
	ppm	mg/m ³	ppm	mg/m ³					
ethyl chloride (chloroethane)	1,000	2,700			AX	75-00-3			
ethyl chloroformate	1	4.5			A	541-41-3			
ethyl cyanoacrylate			0.3	1.5	AP	7085-85-0			
ethyl ether (diethyl ether)	400	1,230			AX	60-29-7			
ethyl formate	100	308	150	462	AX	109-94-4			
ethyl mercaptan (ethanethiol; ethyl sulfhydrylate)	0.5	1.3			AX	75-08-1			
ethyl propionate					A	105-37-3			
ethyl silicate (tetraethylorthosilicate)	10	87			A	78-10-4			
ethylamine	2	3.8	6	11	KP2	75-04-7			
ethylbutyl ketone (3-heptanone; heptan-3-one)	50	237			AP2	106-35-4			
ethylene					<i>Air Fed</i>	74-85-1			
ethylene chloride	10	40			AP3	107-06-2			
ethylene chlorohydrin (2-chloroethanol)			1	3.4	B	107-07-3			
ethylenediamine (1,2-diaminoethane)	10	25			K	107-15-3			
ethylene dibromide*; (1,2-dibromoethane;EDB)	0.5	3.9			A	106-93-4			
ethylene dichloride* (1,2-dichloroethane)	5	21			A	107-06-2			
ethylene dinitrate (EGDN)					<i>Air Fed</i>	628-96-6			
ethylene glycol (particulate)(ethane-1,2-diol)	-	10			P3	107-21-1			
Ethylene glycol (vapour) (ethane-1,2-diol)	-	60			AP2	107-21-1			
ethylene glycol dinitrate	0.2	1.3			A	628-96-6			
ethylene glycol monobutyl ether (2-butoxyethanol)	25	123			A	111-76-2			
ethylene glycol monoethyl ether* (2-ethoxyethanol) *	10	37			A	110-80-5			R2
ethylene glycol monoethyl ether acetate* (2-ethoxyethyl acetate)	10	55			AP	111-15-9			
ethylene glycol monomethyl ether(2-methoxyethanol) *	5	16			A	109-86-4			
ethylene glycol monomethyl ether acetate (2-methoxyethyl acetate)	5	25			AP	110-49-6			
ethylene oxide*	5	9.2			AX	75-21-8	C2	M2	

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	Category			
	ppm	mg/m ³	ppm	mg/m ³		CAS no.			
ethylenediamine (1,2- diaminoethane)	10	25			A	107-15-3			
ethyleneimine					<i>Air Fed</i>	151-56-4	C2	M2	
ethylene thiourea					AP2	96-45-7			R2
ethylidene chloride (1,1-dichloroethane)	200	823			AX	75-34-3			
ethylidene norbornene	5	25			AP	16219-75-3			
ethyne (acetylene; narycylen)					<i>Air Fed</i>	74-86-2			
eucalyptol; (cineole)	-				A	470-82-6			

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP	F						
<i>n</i> -(7-fluoro-3,4-dihydro-3-oxo-4-prop-2-ynyl-2 <i>H</i> -1,4-benzoxazin-6-yl)cyclohex-1-ene,2-dicarboxamide	-					103361-09-7	R2
famoxadone (pesticide)						131807-573	
fenchlorphos (iso)		10			AP2	299-84-3	
fenhexamid (pesticide)						126833-17-8	
fensulfothion (dansanit) (diethyl- <i>p</i> -methysulfinylphenyl thiophosphate)	-		-		P3	115-90-2	
fenthion	-	0.3			P3	55-38-9	
fentin acetate (iso) (pesticide)					P3	900-95-8	
ferbam (iso) (Carbamate dimethyldithiocarbamic acid)	-	10			P2	14484-64-1	
ferrocene	-	10			P2	102-54-5	
ferrous foundry particulate: respirable dust	-	4			P2		
: total inhalable dust	-	10					
ferrous sulphate (herbicide)					P2/3	7782-63-0	
ferrovanadium	-	1			P2	12604-58-9	
Fibre Glass Dust	-	5			P3		
florasulam (pesticide)						145701-23-1	
fluazifop-butyl(iso) ;butyl(RS)-2-(4-(5-trifluoromethyl-2-pyridyloxy)phenoxy)propionate						69806-50-4	R2
flumioxazin (iso) (pesticide)						103361-09-7	R2
flour dust	-	10		30	P2		
flumioxazine (pesticide)						103361-09-7	
fluorides, inorganic (Particulate)	-	2.5			P	16984-48-8	
fluorine	1		1		B	7782-41-4	

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			
fluorodichloromethane (dichlorofluoromethane)					<i>Air Fed</i>	75-43-4	
flurooxpyr (pesticide)						69377-81-7	
Fluorotrichloromethane (phased out 1996 EU)					<i>Air Fed</i>	75-69-4	
flusilazole(ISO); bis(4-flurpphenyl)-(methyl)-(1H-1,2,4-triazole-1-ylmethyl)-silane						85509-19-9	R2
Fly Ash	-		-		BP		
fluroxpyr (pesticide)					AP2	69377-81-7	
formaldehyde (formalin; methylene oxide)*	2	2.5	2	2.5	B	50-00-0	
formamide	20	37	30	56	A	75-12-7	R2
formic acid (methanoic acid)	5	9.6			A	64-18-6	
freon (in general)	-		-		AXP2		
freon 11 (fluorotrichloromethane)	1,000	5,710			AXP2	75-69-4	
freon 12 (dichlorodifluoromethane)	1,000	5,030			AXP2	75-71-8	
freon 13B1 (bromotrifluoromethane)	1,000	6,190			AX	75-63-8	
fuel oils (Various)					AP		
furan					AX	110-00-9	C2
furfural/2-furfuraldehyde	2	8	5	20	A	98-01-1	
furfuryl alcohol	5	20			A	98-00-0	

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	ppm	mg/m ³	ppm	mg/m ³			

<u>TOP</u>	G							
gasoline (unleaded)	300	2,000			AXP2	8006-61-9		
gasoline (leaded)					AXP3	86290-81-5		
galvanic liquids								
germane	0.2	0.64	0.6	1.9	<i>Air Fed</i>	7782-65-2		
germanium tetrahydride					<i>Air fed</i>	7782-65-2		
glacial acetic acid								
glass fibre (dust)	-	5			P3	65997-17-3		
glutaraldehyde	0.05	0.2	0.05	0.2	A	111-30-8		
glycerol (mist)	-	10			AP2	56-81-5		
glycerol trinitrate	0.2	1.9			AP2	55-63-0		
glycidol (2,3-epoxy-1-propanol)	50	150			A	556-52-5	C2	R2
glycol ethylene	200	810			AP2	107-21-1		
glycol dinitrate	0.2	1.3			AP3	628-96-6		
glycol ether (2-butoxyethanol)	25		-		A	111-76-2		
glycol monoethyl ether (2-ethoxyethanol) *	10	37			AP	110-80-5		
glyphosate (n-(phosphonomethyl)glycine) (Roundup Insecticide; contains isopropylamine salts)	-		-		AP	1071-83-6		
grain dust	-	10			P2			
graphite: respirable dust	-	4			P2	7440-44-0		
: total inhalable dust	-	10			P2	7440-44-0		
guthion (azinphos-methyl(iso)) (insecticide/acaricide)	-	0.2			AP3	86-50-0		
gypsum : respirable dust	-	4			P2	10101-41-4		
: total inhalable dust	-	10			P2	10101-41-4		

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	ppm	mg/m ³	ppm	mg/m ³			

<u>TOP</u>	<u>H</u>							
1,6-hexanolactam : dust	-	1		3	AP2	105-60-2		
: vapour & dust		10		20	AP	105-60-2		
1,2,3,4,5,6-hexachlorocyclohexane (lindane)						58-89-9		
2-hexanone (methyl <i>n</i> -butyl ketone; propyl acetone)	5	20			AP3	591-78-6		
2-hydroxyethylamine (2-aminoethanol, ethanolamine)	3	7.6			KP2	141-43-5		
2-hydroxypropyl acrylate (HPA)	0.5	2.7			A	996-61-1		
2-hydroxy-1,2,3-propanetricarboxylic acid					EP	77-92-9		
2,2-bis(4'-hydroxyphenyl)-4-methylpentane						6807-17-6		R2
4-hydroxy-3-(3-oxo-1-phenylbutyl)coumarin: warfarin						81-81-2		R1
4-hydroxy-4-methyl-pentan-2-one (diacetone alcohol)	50	241	75	362	A	123-42-2		
hafnium (celtium)	-	0.5			P3	7440-58-6		
halocarbons (In general)	-		-		A			
halogenated hydrocarbons	-		-		A/AX			
halogens (in general)	-		-		B			
halogeno-platinum compounds (as Pt)	-	0.002			P3	14286-02-03		
halon 1301 (bromotrifluoromethane)	1,000	6,190			AX	75-63-8		
halothane	10	82			AX	151-67-7		
hardwood dust	-	5			P2			
γ -HCH (iso)	-	10			AP3	58-89-9		
HDI (hexamethylene diisocyanate)					Air Fed	822-06-0		
helium					Air Fed	7440-59-7		
heptan-2-one	50	237	100	475	A	110-43-0		
heptan-3-one	35	166	100	475	A	106-35-4		
heptane	500		-		A	142-82-5		

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	ppm	mg/m ³	ppm	mg/m ³					
heptenophos (insecticide)					AP	23560-59-0			
hexaconazole (pesticide)						79983-71-4			
hexachlorobenzene	-		-		AP3	118-74-1	C2		
hexachlorobutadiene	-		-		AP3	87-68-3			
hexachlorocyclohexane (lindane)	-	0.1			AP3	58-89-9			
hexachlorocyclopentadiene	-		-		A	77-47-4			
hexachloroethane : respirable dust	-	4			AP2	76-16-4			
: vapour	5	49			AP2	76-16-4			
: total inhalable dust	-	10			AP2	76-16-4			
hexachloronaphthalene (halowax 1014)	-		-		P2	1335-87-1			
hexafluoroacetone trihydrate	0.1	0.7			A	34202-69-2			
hexahydro-1,3,5-trinitro-1,3,5-triazine	-	1.5			P2	121-82-4			
hexahydrobenzene (cyclohexane)	100	350			A	110-82-7			
hexahydrotoluene (methyl cyclohexane; cyclohexylmethane)	400	1,600			AP	108-87-2			
hexamethyl phosphorictriamide; hexamethylphosphoramidate	-		-		AP3	680-31-9	C2	M2	
hexan-2-one	5	21			A	591-78-6			
hexane (diethylmethylmethane)	20	72			A	110-54-3			
hexanedioic acid	-		-		P2	124-04-9			
hexone (methyl isobutyl ketone) (MIBK)(4-methylpentan-2-one)	50	208			A	108-10-1			
hexylene glycol (2-methylpentan-2,4-diol)	25	123			A	107-41-5			
HFC-134A (1,1,1,2-tetrafluoroethane)					<i>Air Fed</i>	811-97-2			
HMDI (hexamethylene diisocyanate)(hydrogenerated MDI) (4,4-diisocyanato-dicyclohexylmethane)					<i>Air Fed</i>	822-06-0			
histamine	-		-		P3	51-45-6			
l-histidine	-		-		P3	71-00-01			
d-histidine					P3	351-50-8			
hydrazine*	0.02	0.03			K	302-01-2	C2		

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	ppm	mg/m ³	ppm	mg/m ³			
hydrazine bis(3-carboxy-4-hydroxybenzenesulfonate)							C2
hydrazine salts						302-01-2	C2
hydrazine-trinitromethane						-	C2
hydrazobenzine, 1,2-diphenylhydrazine	-		-		AKP	122-66-7	C2
hydrazoic acid (as vapour)			0.1	0.18	BP3	26628-22-8	
hydrobromic acid			3	10	EP2	10035-10-6	
hydrocarbon solvents	-		-		AP		
hydrochloric acid			1	2	B/EP2	7647-01-0	
hydrocyanic acid	10	11			BP2	74-90-8	
hydrofluoric acid	3	2.5			BP2	7664-39-3	
hydrogen					Air Fed	1333-74-0	
hydrogen antimonide (stibine: antimony hydride)	0.1	0.52			BP3	7803-52-3	
hydrogen bromide (hydrobromic acid)			3	10	B/E	10035-10-6	
hydrogen chloride (gas and aerosol mists)	1	2	5	8	B/EP3	7647-01-0	
hydrogen cyanide*			10	11	BP2	74-90-8	
hydrogen fluoride (as F) (anhydrofluoric acid)	1.8	1.5	3	2.5	B/EP2	7664-39-3	
hydrogen halogenides	-		-		EP2		
hydrogen iodide	-		-		B	10034-85-2	
hydrogen peroxide	1	1.4	2	2.8	Air Fed	7722-84-1	
hydrogen phosphide					Air Fed	7803-51-2	
hydrogen selenide					Air Fed	7783-07-5	
hydrogen sulphide (hydrosulfuric acid; hepatic gas; sewer gas)	5	7	10	14	B	7783-06-4	
hydrogenated terphenyl	-		-		AP2	6177-32-7	
hydroquinone & quinone	-	0.5			P2	123-31-9	
hyoscine	-		-		P3	138-12-5	
hyoscyamine	-		-		P3	101-31-5	
iso-hexane	20	72			A	110-54-3	

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	ppm	mg/m ³	ppm	mg/m ³					
<i>n</i> -heptane (dipropylmethane)	500		-		AP2	142-82-5			
<i>n</i> -hexane	20	72			AP2	110-54-3			
<i>sec</i> -hexylacetate (1,3-dimethylbutyl acetate)	50	299			AP2	2499-95-8			

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	ppm	mg/m ³	ppm	mg/m ³				

TOP									
1,3-isobenzofurandione (phthalic anhydride)	-	4			AP	85-44-9			
2-imidazoline-2-thiol						96-45-7			R2
2,2'-iminodisethanol (DEA, diethanolamine)	3	13			A	111-42-2			
2,2'-iminodiethylamine (diethylenetriamine)	1	4.3			A	111-40-0			
4,4'-isobutylethylidenediphenol						6807-17-6			R2
IGE (2,3-epoxypropyl isopropyl ether)	50	241			AP	4016-14-2			
imidazolidine-2-thione						96-45-7			R2
indene (indonaphthene)	10	48	15	72	A	95-13-6			
indium & compounds (as In)	-	0.1		0.3	P3	7440-74-6			
indole	-		-		A	120-72-9			
Insecticide (Pesticides)(Organic)	-		-		AP2				
iodine			0.1	1.1	BP2	7553-56-2			
iodoform	0.6	9.8	1	16	AP2	75-47-8			
iodomethane (methyl iodine)*	2	12			AX	74-88-4			
IPBC (insecticide)					P3				
IPDI (isocyanates)		0.02		0.07	Air Fed	4098-71-9			
iprovalicarb (pesticide)						140923-17-7			
iron oxide, fume (as Fe)	-	5		10	P3	1309-37-1			
Iron pentacarbonyl (pentacarbonyliron)					Air Fed	13463-40-6			
iron salts (ferrous sulphate and chloride)	-	1		2	P2				
isoamyl acetate (3-methyl-1-butanol acetate) (pear oil)	50	270			A	123-92-2			
isoamyl alcohol (3-methyl-1-butanol)	100	366			A	123-51-3			
isoamyl methyl ketone (5-methylhexan-2-one)	50	237			A	110-12-3			
isobutene (containing>0.1%butadiene)	600	1,450			AXP2	75-28-5	C1	M2	

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	ppm	mg/m ³	ppm	mg/m ³			
isobutene (isobutylene; 2-methylpropene)	-		-		AX	115-11-7	
isobutyl acetate	150	724	187	903	A	110-19-0	
isobutyl alcohol (isobutanol; 2-methylpropan-1-ol)	50	154			A	78-83-7	
isobutylene (isobutene; 2-methylpropene)	-		-		AX	115-11-7	
isobutyl methacrylate	-		-		A	97-86-9	
isobutyl methyl ketone (4-methylpentan-2-one)	50	208			A	108-10-1	
isobutyl nitrate						542-56-3	C2
isooctyl alcohol (mixed isomers)	50	271			A	26952-21-6	
isocyanates all (as-NCO)		0.02		0.07	<i>Air Fed</i>	26675-46-7	
isoflurane	50	383			<i>Air Fed</i>	26675-46-7	
isopentyl acetate (isoamyl acetate)	50	270			A	123-92-2	
isophorone (3,5,5-trimethylcyclohex-2-enone)			5	29	A	78-59-1	
isophorone diamine					AP2	2855-13-2	
Isophrone diisocyanate					<i>Air Fed</i>	4098-71-9	
Isoprene: 2-methyl- 1,3-butadiene					<i>Air Fed</i>	78-95-5	C2
Isopropanol (propan-2-ol; 2-propanol; isoprprpyl alcohol)	400	999			AP	67-63-0	
isopropenylbenzene (2-phenyl-propene; <i>a</i> -methylstyrene)	100	480			A	98-83-9	
Isopropoxyethyl acetate						19234-20-9	
isopropyl acetate			200	849	A	108-21-4	
isopropyl alcohol (propan-2-ol; 2-propanol)	400	999			A	67-63-0	
isopropyl benzene (cumene; propane,2-phenyl)	25	125			A	98-82-8	
isopropyl chloroformate	1	5.1			A	108-23-6	
isopropyl ether (2,2'-Oxybis-(propane); diisopropyl ether)	250	1,060			A	108-20-3	
isopropyl glycidyl ether (IGE)	50	241			A	4016-14-2	
isopropylamine (2-aminopropane; 1-methylethylamine)	5	13			K	75-31-0	
<i>n</i> -isopropylaniline	2	10			A	768-52-5	

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	ppm	mg/m ³	ppm	mg/m ³					
isoproturon (pesticide)						34123-59-6			
isourea		10			KP3	57-13-6			

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP	K							
kaolin (china clay; aluminium silicate) : respirable dust	-	2			P2	1332-58-7		
Kao wool					P3			
kapok	-		-		P2			
kerosene	-		-		AP2	8008-20-6		
Ketene (carbomethane, ethenone)	0.5	0.87	1.5	2.6	Air Fed	463-51-4		
ketone	-		-		A			
p-kresidin (2-methoxy-5-methylanilin)	-		-		AP3	120-71-8		

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	L							
lauric acid (dodecanoic acid)	-		-		AP2	143-07-7		
lead & organic compounds	-	0.15			P3	7439-92-1		R1
lead acetate					P3	1335-32-6		R1
lead alkyls	-	0.1			AP3			R1
lead azide					P3	13424-46-9		R1
lead(II) arsenate (as Pb)	-	0.1			P3	3687-31-8		
lead chromate (as Cr) (chrome orange; red lead chromate)	-	0.15			P3	7758-97-6		R1
lead di(acetate)					P3	301-04-2		R1
lead hexafluorosilicate						25808-74-6		R1
lead hydrogen arsenate (inorganic insecticide)	-		-		P3	7784-40-9	C1	R1
lead Inorganic fumes & dusts (as Pb)	-	0.15			P3			
lead(II) methanesulphonate					P3	17570-76-2		R1
lead styphnate					P3	15245-44-0		R1
lead 2,4,6-trinitroresorcinoxide					P3	15245-44-0		R1
lewisite	-		-		B	541-25-3		
lime (calcium oxide ; quicklime)	-		-		P2	1305-78-8		
limestone (calcium carbonate) : respirable dust	-	4			P2	1317-65-3		
: total inhalable dust	-	10			P2			
limonene (dipentene)	-		-		AP	138-86-3 5989-27-5		
lindane (HCH : 1,2,3,4,5,6-hexachlorocyclohexane)	-	0.1			AP3	58-89-9		
linseed oil						8001-26-1		
linuron , 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea						330-55-2		R2
lithium hydride	-	0.025			P3	7580-67-8		

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	ppm	mg/m ³	ppm	mg/m ³					
lithium hydroxide	-			1	P2	1310-65-2			
LPG (liquid petroleum gas)	1,000	1,750	1,250	2,180	AIR FED	68476-85-7 68476-86-8			
lubricant oils gases & fumes	-		-		A				
lye (caustic potash; potassium hydroxide; potassium hydrate)	-			2	BP2	1310-58-3			

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	ppm	mg/m ³	ppm	mg/m ³			

<u>TOP</u>	<i>M</i>							
(n)-methylaniline	0.5	2			AK	100-61-8		
1-methoxypropan-2-ol	100	375	150	560	A	107-98-2		
1-methoxypropan-2-ol acetate (MPA-PMA)	-		-		AP			
1-methoxypropylacetate	50	274	100	548	AP	108-65-6		
1-methyl-2-pyrrolidine	25	103	75	309	A	872-50-4		
1-methyl-3-nitro-1-nitrosoguanidine						70-25-7	C2	
1-methylbutyl acetate (2-pentyl acetate; amyl acetate; acetoxypentane)	50	270			A	626-38-0		
1,2-bis(2-methoxyethoxy)ethane: TEGDME: triethylene glycol dimethylether; triglyme						112-49-2		R2
2-methoxyaniline: o-anisidine					AP3	90-04-0	C2	
2-(methoxycarbonylhyrazonomethyl) quinoxaline 1,4-dioxide						6804-07-5	C2	
2-methoxyethanol (methyl cellosolve)*	5	16			A	109-86-4		R2
2-methoxyethyl acetate; methylglycol acetate	5	25			A	110-49-6		R2
Bis(2-methoxyethyl) ether						111-96-6		R2
Bis(2-methoxyethyl) phalate						117-82-8		R2
2-methoxymethylethoxypropanol	50	308			AP	34590-94-8		
2-methoxy-1-methylethylacetate	50	274	-		AP	108-65-6		
2-methoxypropan-2-ol (butanol; trimethyl carbinol)	100	308	150	462	AP	75-65-0		
2-methoxypropyl acetate						70657-70-4		R2
2-methoxypropanol						1589-47-5		R2
2-methylaziridine	-		-		AXP3	75-55-8	C2	
2-methylpentane-2,4-diol	25	123	25	123	A	107-41-5		
2-methyl-1,3-butadiene					Air Fed	78-95-5	C2	

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	ppm	mg/m ³	ppm	mg/m ³			
2-methyl-1,3-di(2,4-xylylimino)-2-azapropane (insecticide)						33089-61-1	
2-methyl-4-isothiazolin-3-one		1.5			AP3	2682-20-4	
2-methyl-4,6-dinitrophenol					<i>Air Fed</i>	534-52-1	
2-methylcyclohexone	50	233	75	350	A	583-60-8	
2-methyl-m-phenylene diamine						823-40-5	C2
2-methylpropan-1-ol	50	154	75	231	A	78-83-1	
2-methylpropan-2-ol	100	308			A	75-65-0	
3-methylbutan-1-ol	100	366	125	458	AP	123-51-3	
4,4-methylenebis-(2-chloraniline)MBOCA	-	0.005			AP3	101-14-4	C2
4,4'-methylenedianiline * (MDA)	0.01	0.08			<i>Air Fed</i>	101-77-9	C2
4,4'-methylene-diphenol diisocyanate					<i>Air Fed</i>	101-68-8	
4,4'-methylenedi-o-toluidine	-		-			838-88-0	C2
4-methoxy-m-phenylenediamine						615-05-4	C2
4-methylpent-3-en-2-one	15	61			A	141-79-7	
4-methyl-m-phenylene diamine						95-80-7	C2
4-methylpentan-2-ol	25	106	40	170	A	108-11-2	
4-methylpentan-2-one	50	208	100	416	AP	108-10-1	
4-methyl-m-phenylenediamine	-		-		AP	95-80-7	C2
4-methyl-m-phenylene diisocyanate				Up to 0.8mg/m3	<i>Air Fed</i>	584-84-9	
5-methylheptan-3-one (ethyl amyl ketone)	10		20		A	541-85-6	
5-methylhexan-2-one	20	95	100	475	A	110-12-3	
6-methoxy-m-toluidine						120-71-8	C2
magnesite (magnesium carbonate) : total inhalable dust	-	10			P2	546-93-0	
: respirable dust	-	4			P2		
magnesium oxide (as Mg): total inhalable dust	-	10			P3	1309-48-4	

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	ppm	mg/m ³	ppm	mg/m ³			
: respirable dust	-	4			P3		
malathion (iso)	-	10			AP3	121-75-5	
maleic acid	-		-		P2	110-16-7	
maleic anhydride*	-	1		3	AP2	108-31-6	
Man Made Mineral Fibre (MMMMF)	-	5 mg/m3 2f/ml/hr			P2		
manganese, fume (as Mn)	-	1			P3	7439-96-5	
manganese and compounds (as Mn)	-	0.5			P2	7439-96-5	
manganese cyclopentadienyl tricarbonyl					<i>Air Fed</i>	12079-65-1	
manganese tetroxide (trimanganese tetraoxide)	-	1			P2	1317-35-7	
marble: total inhalable dust	-	10			P2	1317-65-3	
: respirable dust	-	4			P		
MCPA (4-chloro-2-methylphenoxyacetic acid) (iso) (herbicide)					AP2	94-74-6	
MbOCA (2,2'-dichloro-4,4'-methylenedianiline)	-	0.005			AP2	101-14-4	
MDA (4,4'-methylenedianiline)					<i>Air Fed</i>	101-77-9	
MDI (4,4-methylenediphenyl-di-isocyanate)					<i>Air Fed</i>	101-68-8	
MEK (methyl ethyl ketone) (butan-2-one)	200	600			AP	108-10-1	
mecoprop (±)-2-(4-chloro-o-tolyloxy)propionic acid (iso) (herbicide)					AP	93-65-2	
menthol	200	266			AXP3	2216-51-5 1490-04-6	
mequinol (p-methoxyphenol) (INN)	-	5			A	150-76-5	
Mercaptans (ethanethiol)	10		-		A	75-08-1	
mercaptoacetic acid (thioglycolic acid)	1	3.8			AP2	68-11-1	
mercury alkyl (as Hg)					<i>Air Fed</i>		
mercury and inorganic divalent compounds					<i>Air Fed</i>	7439-97-6	

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	ppm	mg/m ³	ppm	mg/m ³					
Mesitylene (Trimethylbenzenes)	25	125			A	108-67-8			
mesityl oxide (4-methylpent-3-en-2-one)	15	61			A	141-79-7			
metal fumes (in general)	-		-		P3				
metal oxides (Solid Particles)	-		-		P2				
metalaxyl-m (pesticide)						70630-17-0			
methacrylic acid	20	72	40	143	A	79-41-4			
methacrylonitrile	1.0	2.8			A	126-98-7			
methanal	2	2.5			BP3	50-00-0			
methane					<i>Air Fed</i>	74-82-8			
methanedicarboxylic acid (acetic acid; ethanoic acid)	10	25			AP3	64-19-7			
methanethiol	0.5	1.0			<i>Air Fed</i>	74-93-1			
methanoic acid (formic acid)	5	9.6			EP2	64-18-6			
methanol	200	266	250	333	AX	67-56-1			
methylated spirits					AP3				
methylcyclohexane (cyclohexylmethane; hexahydrotoluene)	-		-		AP2	108-87-2			
methomyl (iso)	-	2.5			AP2	16752-77-5			
methoxyacetic acid						625-45-6			R2
methoxychlor (iso)	-	10			P2	72-43-5			
methoxyphenol (mequinol)	-	5			A	150-76-5			
methyl-2-cyanoacrylate			0.3	1.4	BP2	137-05-2			
methylcyclohexanol	50	237			AP2	25639-42-3			
methyl acetate (acetic acid; methyl ester; methyl ethanoate)	200	616	250	770	AX	79-20-9			
n-methylacetamide						79-16-3			R2
methyl acrylate	10	36			A	96-33-3			
methyl azoxy methyl acetate					AXP3	592-62-1	C2		R2
methyl-ONN- azoxymethyl acetate					AXP3	592-62-1	C2		R2

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	ppm	mg/m ³	ppm	mg/m ³					
methylal	1,000	3,100			AXP3	109-87-5			
methylamine	10	13			K	74-89-5			
methyl- <i>n</i> -amyl-ketone (heptan-2-one)	50	237			A	110-43-0			
<i>n</i> -methylaniline	0.5	2.2			A	100-61-8			
methyl acrylamidomethoxyacetate	-		-		AXP	77402-03-0	C2	M2	
methyl acrylamidoglycolate	-		-		AXP	77402-05-2	C2	M2	
methyl acrylonitrile	1	3			AP3	126-98-7			
<i>m</i> -methyl styrene	100	491				25013-15-4			
methyl alcohol (methanol; carbinol)	200	266			AXP3	67-56-1			
methylated spirits					A				
methyl benzene (toluene)	50	191			AP2	108-88-3			
methyl bromide (bromomethane)	5	20			AXP	74-83-9			
methylbutyl acetate	50				AP	626-38-0			
methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate		10			AP	17804-35-2		M2	R2
methyl- <i>tert</i> -butyl ether	25	92	75	275	AX	1634-04-4			
methyl- <i>n</i> -butyl ketone (2-hexanone; propyl acetone; hexan-2-one)	5	21			A	591-78-6			
methyl cellosolve	5	16			AP2	626-38-0			
methyl cellosolve acetate	5	24			AP2	110-49-6			
methyl chloride (chloromethane)					Air Fed	74-87-3			
methyl chloroform (1,1,1-trichloroethane)	200	1,110			AP	71-55-6			
methyl chloroformate	-		-		A	79-22-1			
Methyl cyanide (acetonitrile, cyanomethane)	40	68			AP	75-05-8			
methyl-2-cyanoacrylate			0.3	1.4	B	137-05-3			
methyl cyclohexane (cyclohexylmethane; hexahydro-toluene)	400	1,600			A	108-87-2			
<i>o</i> -methylcyclohexane					A	583-60-8			
methylcyclohexanol	50	237	75	356	A	25639-42-3			

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	ppm	mg/m ³	ppm	mg/m ³				
methylcyclopentadienyl manganese, tricarbonyl (asMn), tricarbonyl(methylcyclopentadienyl)-manganese					Air Fed	12108-13-3		
methyl demeton	0.5	5			AP3	8022-00-2		
methyl ether (dimethyl ether; oxybismethane)	10		-		AXP3	115-10-6		
methyl ether ketone	200	600			A	78-93-3		
methyl ethyl ketone peroxide (MEKP)			0.2	1.5	A	1338-23-4		
methyl formate	100	250			AX	107-31-3		
methylformamide						123-39-7		R2
methyl hydrazine	-		-		BP3	60-34-4		
methyl iodide* (iodomethane)	2	12			AX	74-88-4		
methyl isoamyl ketone (5-methylheptan-2-one)	50	237			A	110-12-3		
methyl isobutyl carbinol (4-methylpentan-2-ol)	25	106			A	108-11-2		
methyl isobutyl ketone	50	208			A	108-10-1		
methyl isocyanate				Up to 0.8mg/m ³	Air Fed	624-83-9		
methyl mercaptan (methanethiol)	0.5	1			AX	74-93-1		
methyl methacrylate (methacrylic acid; methyl ester)	50	208	100	416	A	80-62-6		
methyl oxirane 1,2-epoxypropane					AX	75-56-9	C2	M2
methyl parathion (parathion-methyl)	-	0.2			AP3	298-00-0		
methyl phenylenediamine						25376-45-8	C2	
methyl propyl ketone	200	700			A	107-87-9		
methyl 3-(quinoxalin-2-ylmethylene) carbazate 1,4-dioxide						6804-07-5	C2	
methyl silicate (tetramethyl orthosilicate)	1	6.3			A	681-84-5		

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	ppm	mg/m ³	ppm	mg/m ³					
methylstyrene (all isomers except <i>o</i> -methylstyrene)	100	491			AP3	25013-15-4			
<i>n</i> -methyl- <i>n</i> -2,4,6-tetranitroaniline	-	1.5			P2	479-45-8			
methylal (dimethoxymethane)					<i>Air Fed</i>	109-87-5			
methylamine	10	13			K	74-89-5			
<i>n</i> -methylaniline	0.5	2.2			A	100-61-8			
methylcyclohexanol	50	237			A	25639-42-3			
methylene bisphenyl diisocyanate (MDI)					<i>Air Fed</i>	101-68-8			
methylene bis (4-cyclohexylisocyanate)	-		-		BP3	5124-30-1			
methylene chloride* (dichloromethane) *	100	300			AX	75-09-2			
methylene dibromide (dibromomethane)	0.5	4			A	74-95-3			
Mevinphos(ISO)	0.01	0.09			AP3	7786-34-7			
MDF (Medium Density Fibre Board) (USING POWER TOOLS)	2		-		ABP2				
(USING HAND TOOLS)					P2				
MIKB (Methyl isobutyl ketone; hexone)	50	208			AP	108-10-1			
mica: total inhalable dust	-	10			P2	12001-26-2			
: respirable dust	-	0.8			P2				
michler's ketone						90-94-8		C2	
mineral Wool	-	5,000			P2				
molybdenum (as Mo) insoluble compounds	-	10		20	P2	7439-98-7			
molybdenum (as Mo) soluble compounds	-	5		10	P2	7439-98-7			
Monocrotophos (insecticide)	-		-		P3	6923-22-4			
monochloroacetic acid (chloroethanoic acid; chloroacetic acid)	0.3	1.2			AP2	79-11-8			
monochlorobenzene	50	230			AP2	108-90-7			
monofluorotrichloromethane	20		-		AX	75-69-4			
monomethylaniline	0.5	2			AP3	100-61-8			

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	ppm	mg/m ³	ppm	mg/m ³					
montmorillonite (amorphous clay)					P2				
morpholine	10	36	20	72	A	110-91-8			
Moth Balls	10	50			AP2				
<i>n</i> -methylaniline	0.5	2.2			A	100-61-8			
<i>o</i> -methylcyclohexanone	50	233			AP	583-60-8			
Mustard Oil (allyl isothiocyanate)					<i>Air Fed</i>	57-06-7			
myclobutanil (pesticide)						88671-89-0			

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	N							
1-nitropropane	25	90			ABP3	108-03-2		
1,5-naphthylene diisocyanate					<i>Air Fed</i>	3173-72-6		
2-naphthylamine salts (beta-naphthylamine)	-		-		AP3	91-59-8	C1	
2-nitroanisole	-		-		AP	91-23-6	C2	
2-nitronaphthalene	-		-		AP	581-89-5	C2	
2-nitropropane	5	19			ABP3	79-46-9	C2	
2-nitrotoluene					AP3	88-72-2	C2	M2
2,2'-(nitrosoimino)bisethanol	-		-		AP3	1116-54-7	C2	
3-nitroaniline					AP	99-09-2		
3-nitrotoluene					AP3	99-08-1		
4-nitroaniline	-	6			AP	100-01-6		
4-nitrobiphenyl	-		-		P3	92-93-3	C2	
4-nitrodiphenyl	-		-		P3	92-93-3		
4-nitrotoluene					AP3	99-99-0		
2-naphthylamine	-		-		AP3	91-59-8		
5-nitroacenaphthene	-		-		AP	602-87-9	C2	
Naled (insecticide)	-	3			AP2	300-76-5		
naphtha, Coal Tar	100	400			AP2	8030-30-6		
naphtha, Petroleum (solvent)	100	400			AP2	8030-30-6		
Naphthalene (Naphtalin; white tar)	10	53			AP2	91-20-3		
narcylen					<i>Air Fed</i>	74-86-2		
neon					<i>Air Fed</i>	7440-01-9		

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	ppm	mg/m ³	ppm	mg/m ³					
NDI (naphthalene diisocyanate (1,5-diisocyanato-naphthalene					<i>Air Fed</i>	31373-72-6			
nickel carbonate	-	0.1			P3	3333-67-3			
nickel carbonyl (tetracarbonylnickel					<i>Air Fed</i>	13463-39-3			
nickel dioxide	-		-		P3	12035-36-8	C1		
nickel metal	-	0.1			P3	7440-02-0			
nickel monoxide	-		-		P3	1313-99-1	C1		
nickel organic compounds (as Ni)	-	1			P3	7440-02-0			
nickel subsulphide	-		-		P3	12035-72-2	C1		
nickel sulfide roasting, fume and dust (as Ni)	-	0.1			P3	11113-75-0 12035-72-2			
nickel sulphide		0.1			P3	16812-54-7	C1		
nickel tetracarbonyl (nickel carbonyl					<i>Air Fed</i>	13463-39-3			R2
nickel*	-	0.1			P3	7440-02-0			
nickel & its inorganic compounds (except nickel carbonyl) : water-soluble compounds (as Ni) *	-	0.1			P3	7440-02-0			
nickel & water-insoluble compounds (as Ni) *	-	0.5			P3				
nicotine (3-(1-methyl-2-pyrrolidyl) pyridine)	-	0.5		1.5	AP3	54-11-5			
nitrapyrin	-	10			AP2	1929-82-4			
nitric acid			1	2.6	<i>Air Fed</i>	7697-37-2			
nitric oxides (nitrous vapour					<i>Air Fed</i>	10102-43-9			
nitro compounds (Organic)	-		-		AB				
nitrobenzene (nitrobenzol; oil of mirbane))	0.2	1			A	98-95-3			
nitrochloroform					<i>Air Fed</i>	76-06-2			
nitroethane	100	312			A	79-24-2			
nitrofen(iso)	-		-		ABP	1836-75-5	C2		R2

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	ppm	mg/m ³	ppm	mg/m ³			
nitrogen					<i>Air Fed</i>	7727-37-9	
nitrogen dioxide					<i>Air Fed</i>	10102-44-0	
nitrogen monoxide					<i>Air Fed</i>	10102-43-9	
nitrogen trifluoride					<i>Air Fed</i>	7783-54-2	
nitroglycerine (glycerol trinitrate)	0.2	1.9			AP2	85-63-0	
nitromethane	100	254	150	381	A	75-52-5	
nitropropane	25	93			AB	108-03-2	
2-nitrotoluene, all isomers	5	29			AP3	88-72-2	
nitrotrichloromethane (see, chloropicrin (PS))	0.1	0.68			AP3	76-06-2	
nitrous oxide	100	183			<i>Air Fed</i>	10024-97-2	
<i>n</i> -nitrosodimethylamine (dimethylnitrosoamine)	-		-		AP3	62-75-9	C2
<i>n</i> -nitrosodipropylamine	-		-		AP3	621-64-7	C2
nonane	-		-		AP	111-84-2	
nonyphenols	-		-		AP2	25154-52-3	
<i>p</i> -nitroaniline	-	6			AP3	88-74-4	

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	ppm	mg/m ³	ppm	mg/m ³				

TOP	O							
2,2-oxydiethanol	23	101			A	111-46-6		
4,4'-oxydianiline and its salts						101-80-4	C2	M2
9-octadecenoic acid (oleic acid)	-		-		P2	112-80-1		
n-octane	300	1,450			A	111-65-9		
octachloronaphthalene (halowax 1051)	-	0.1			AP3	2234-13-1		
octadecanoic acid (stearic acid)	-		-		AP	57-11-4		
octalene (insecticide)	-	1			AP3	309-00-2		
Oil Mist, mineral (white mineral oil; cutting oil; lubricating oil)	-	5			AP3	8012-95-1		
Olive oil								
oleic acid (9-octadecenoic acid)	-		-		P2	112-80-1		
Organic Nitro Compounds	-		-		A			
Organic Vapours, Solvent (in general)	-		-		A			
orthodichlorobenzene			50	300	AP2	95-50-01		
orthophosphoric acid (phosphoric acid; o-phosphoric acid)	-	1		2	P2	7664-38-2		
osmium tetroxide (as Os)	0.0002	0.002	0.0006	0.006	<i>Air Fed</i>	20816-12-0		
oxalic acid (ethane dioic acid)	-	1		2	P2	144-62-7		
oxalonitrile					<i>Air Fed</i>	460-19-5		
oxaml (insecticide, acaricide, nematocide)					A2P2	23135-22-0		
oximecarbonate								
oxygen difluoride	-		-		B	7783-41-7		
oxiranemethanol; glycidol						556-52-5	C2	R2
oxiranemethanol, 4-methylbenzene-sulfonate,(S)-						70987-78-9	C2	
oxymethylene	2	2.5			EP3	67-56-1		

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			
ozone			0.2	0.4	AXP3	10028-15-6	

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	<i>P</i>							
1-phenyldodecane (dodecylbenzene)	-		-		AP	123-01-3		
1,3-propanesultone	-		-		AP	1120-71-4	C2	
2-phenylpropene (iso-propenylbenzene)	50	246	100	491	A	98-83-9		
2-phenyl-1-propene (isopropenylbenzene: <i>a</i> -methylstyrene)	-		-		AP	98-83-9		
2-propanol (Propanol-2-ol)	400	999			AP2	67-63-0		
2-pyridylamine (2-Aminopyridine)	0.5	2	2	7.8	AP	502-29-0		
3-propanolide (1,3-Propiolactone)	-		-		AP	57-57-8	C2	
<i>B</i> -propiolactone	-		-		AP3	57-57-8	C2	
<i>m</i> -phthalodinitrile	-		-		P2	626-17-5		
<i>o</i> -phthalodinitrile					P2	91-15-6		
<i>n</i> -phenyl- <i>b</i> -naphthylamine	-		-		AP3	135-88-6		
<i>n</i> -propanol	200	500			AP	71-23-8		
<i>n</i> -propyl Acetate	200	849			AP2	109-60-4		
<i>n</i> -propyl Alcohol	200	500			AP2	71-23-8		
<i>n</i> -propyl Nitrate	25	105			BP3	627-13-4		
paclobutrazol (plant growth hormone)					P3	76738-62-0		
Paint (Spray), Vapours (except 2 pack isocyanate paints)	-		-		AP2			
palmitic acid (hexadecanoic acid)	400		-		E	57-10-3		
paracetamol: total inhalable dust	-	10			P2	103-90-2		
paraffin					A	8002-74-2		
paraffin wax (fume)	-	2		6	P3	8002-74-2		
para-phenylenediamine	-		-		ABP3	106-50-3		
paraquat					P3	4685-14-7		
paraquat dichloride (dust)	-	0.08			P3	1910-42-5		

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	ppm	mg/m ³	ppm	mg/m ³			
parathion (ethyl parathion)	-	0.1			AP3	56-38-2	
parathion methyl	-	0.2			AP3	298-00-0	
PCB (polychlorinated biphenyls)	-	0.1			AP3	1336-36-3	
pentaborane	0.005	0.01			AP3	19624-22-7	
pentacarbonyliron (as Fe)	0.01	0.08			<i>Air Fed</i>	13463=40-6	
pentachloroethane	5	40			AP3	76-01-7	
pentachloronaphthalene (halowax 1013)	-	0.5			AP2	1321-64-8	
pentachlorophenol	-	0.5			AP3	87-68-5	
pentachloryl fluoride	3	13			B	7616-94-6	
pentaerythritol :total inhaleable dust	-	10		20	P2	115-77-5	
: respirable dust	-	4			P2		
pentan-2-one	200	716	250	895	A	107-87-9	
pentan-3-one	200	716	250	895	A	96-22-0	
pentane	600	1,800			AX	109-66-0	
2-pentanone	200	700			AP2	107-87-9	
3-pentanone	200	700			AP2	96-22-0	
pentyl acetate (all isomers)	50	270	100	541	A	628-63-7	
pentyl-2,3-epoxypropyl ether	1	6.2			AP3	122-60-1	
n-pentyl-isopentylphthalate					AP	84777-06-0	R2
pentylene glycol	1000		-		A	5343-92-0	
pentylene tetrazole							
perchloroethylene (tetrachlorethylene)	50	345			A	127-18-4	
perchloromethyl mercaptan (trichloromethyl sulfur chloride)	-		-		B	594-42-3	
perchloryl fluoride (chlorine fluorine oxide)	3	13			B	7616-94-6	
perlite (sodium potassium aluminium silicate) : total inhalable dust	-	10			P2		
: respirable dust	-	4			P2		

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	ppm	mg/m ³	ppm	mg/m ³			
permanganate of potash	-		-		P3		
permethrin (insecticide)	-		-		AP	52645-53-1	
pertyne	-	10			A		
pesticides	-		-		AP2		
Petrol (Vapours)	-		-		AP2		
petroleum naphtha	100	400			A		
PGDN (propylene dinitrate)	0.2	1.4			AP3	6423-43-4	
phenacyl chloride (2-chloroacetophenone)	0.05	0.32			AP3	532-27-4	
phenol (carbolic acid; hydroxybenzene)	2				AP2	108-95-2	
phenothiazin (thiodiphenylamine) (insecticide)	-		-		P2	92-84-2	
phenyl-2,3-epoxypropyl ether	1	6.2			A	100-42-5	
<i>m</i> -phenylenediamine		0.1			P3	108-45-2	
<i>o</i> -phenylenediamine		0.1			P3	95-54-5	
<i>p</i> -phenylenediamine	-	0.1			P3	106-50-3	
phenyl ethane (ethylbenzene)	100	441			AP	100-41-4	
phenyl ether (diphenyl ether; diphenyl oxide) : vapour	1	7			AP	101-84-8	
phenyl ether- biphenyl mixture (dowtherm A) : vapour	1		-		AP2	101-84-8	
phenyl ethylene (vinyl benzene; styrene)	100	430			A	100-42-5	
phenyl glycidyl ether (PGE)	1	6			A	122-60-1	C2
phenyl mercaptan (benzenethiol; thiophenol)	-		-		B	108-98-5	
phenylhydrazine	-		-		AP2	100-63-0	C2
phenylhydrazinium chloride					AP3	59-88-1	C2
phenylhydrazine hydrochloride					AP3	27140-08-5	C2
phenylhydrazinium sulphate (2:1)					AP3	52033-74-6	C2
phenyloxirane						96-09-3	C2
phenylphosphine	-		-		B	638-21-1	
phosphoric acid (d-phosphoric acid; orthophosphoric acid)	-	1		2	EP	7664-38-2	

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	ppm	mg/m ³	ppm	mg/m ³			
phosphoric esters	-		-		AP2		
phorate (thimet)	-	0.05		0.2	AP3	208-02-2	
phosdrin (mevinphos)	0.01	0.09			AP3	7786-34-7	
phosgene	0.02	0.08	0.06	0.25	<i>Air Fed</i>	75-44-5	
phosgene & diphosgene	0.02	0.08	0.06	0.25	<i>Air Fed</i>		
phosphine (hydrogen phosphide)	0.1	0.14	0.2	0.28	B	7803-51-2	
phosphoric acid (orthophosphoric acid)	-			2	P3	7664-38-2	
phosphoric perchloride	0.1	0.87			BP2	10026-13-8	
phosphorus (Yellow)	-	0.1		0.3	P3	7723-14-0	
phosphorus oxychloride (Phosphoryl trichloride)	0.2	1.3			BP2	10025-87-3	
phosphorus pentachloride	0.1	0.87	0.2	2	BP3	10026-13-8	
phosphorus pentasulphide (Diphosphorus pentasulphide)	-	1			P3	1314-80-3	
phosphorus pentoxide (diphosphorus pentoxide)	-			2	P3	1314-56-3	
phosphorus trichloride	0.2	1.1	0.5	2.9	BP3	7719-12-2	
phosphoryl chloride	0.2	1.3			BP3	10025-87-3	
phosphoryl oxychloride	0.2	1.3			BP3	10025-87-3	
phosphoryl trichloride	0.2	1.3	0.6	3.8	BP3	10025-87-3	
phthalic anhydride* (1,3-isobenzene-furandione; benzenedicarboxylic acid anhydride; phosphoric Portland)	1,2-	-	4	12	P3	85-44-9	
Picloram (iso) (tordan)	-	10		20	P3	1918-02-1	
picric acid (2,4,6, trinitrophenol)	-	0.1		0.3	P3	88-89-1	
piperazine		0.1		0.3	AP2	110-85-0	
piperazine dihydrochloride	-	0.1		0.3	P2	142-64-3	
piperidine	1	3.5			A	110-85-0	
pival (2-pivalyl-1,3-Indandione)(pesticide)	-		-		P3	83-26-1	
Plaster of Paris (calcium sulphate) : total inhalable dust	-	10			P2	26499-65-0	

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category		
	ppm	mg/m ³	ppm	mg/m ³					
: respirable dust	-	4			P2				
platinum metal	-	5			P3	7440-06-4			
platinum compounds soluble (except certain halogeno-platinum compounds) (as Pt)	-	0.002			P3	7440-06-4			
polyacrylates	-		-		P3				
polychlorinated biphenyl (PCB)(controlled substance)	-	0.1			AP3	1336-36-3			
polychlorobiphenyls (now banned)	-		-		AP3	1336-36-3			
polytetrafluoroethylene (PTFE) (decomposition products)(Teflon)	-		-		AP2	9002-84-0			
polyvinyl chloride (PVC): total inhalable dust	-	10			P2	9002-86-2			
: respirable dust	-	4			P				
portland cement : total inhalable dust	-	10			P2	65997-15-1			
: respirable dust	-	4			P2				
potassium bromate	-		-		BP	7758-01-2	C2		
potassium chromate	-		-		BP	7789-00-6	C2	M2	
potassium cyanide (dust)	-		-		BP3	151-50-8			
potassium dichromate	-					7778-50-9	C2	M2	R2
potassium hydrate	-			2	BP2	1310-58-3			
potassium hydroxide (caustic potash; lye; potassium hydrate)	-			2	P2	1310-58-3			
potassium (VII) manganate	-		-		P3	10294-64-1			
potassium permanganate	-		-		P2	7722-64-7			
potassium persulphate (dipotassium peroxodisulphate)	-	1			P2	7727-21-1			
m-phenylenediamine		0.1			P3	108-45-2			
o-phenylenediamine		0.1			P3	95-54-5			
p-Phenylene Diamine	-	0.1			P3	106-50-3			
primiphos-methyl (insecticide)					AP	29232-93-7			
propan-1-ol (n-propanol)	200	500			A	71-23-8			
propan-2-ol	400	999			A	67-63-0			

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	ppm	mg/m ³	ppm	mg/m ³			

propane					<i>Air Fed</i>	74-98-6		
propane-1,2-diol : Total vapour and particulates	150	474			AP2	57-55-6		
: particulates only	-	10			AP2			
propane,2-phenyl (cumene; Isopropyl benzene)	25	125	50	250	A	98-82-8		
propanoic acid	10	31	15	46	AP2	79-09-4		
propargyle alcohol (prop-2-yn-1-ol)	1	2.3			A	107-19-7		
propenamide		0.3			AP	79-06-1	C2	M2
propiconazole (fungicide)					AP2	60207-90-1		
propionaldehyde	200		-		AX	123-38-6		
propionic acid	10	31			A	79-09-4		
propoxur	-	0.5		2	BP	114-26-1		
Propranolol	-	2		6	P3	525-66-6		
n-propyl acetate	200	849	250	1,060	A	109-60-4		
propyl alcohol	200	500			A	71-23-8		
propyl benzene					A	103-65-1		
propyl canazole (insecticide)					P3	60207-90-1		
propylene					<i>Air Fed</i>	115-07-1		
propylene dichloride (1,2-dichloropropane)	75	350			A	78-87-5		
propylene dinitrate (PGDN)	0.2	1.4			A	6423-43-4		
propylene glycol (propane-1,2-diol) : vapours & particulates	150	474			AP2	57-55-6		
: particulates only	-	10			AP2			
propylene glycol dinitrate	0.2	1.4			A	6423-43-4		
propylene glycol methylether acetate (1-Methoxypropylacetate)	50	274			AP	108-83-8		
propylene glycol monomethyl ether (1-Methoxypropan-2-ol)	100	375			A	107-98-2		
propyleneimine	-		-		AXP3	75-55-8	C2	
propylene oxide	5	12			AX	75-56-9	C2	M2
prop-2-yn-1-ol	1	2.3	3	7	A	107-19-7		

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	ppm	mg/m ³	ppm	mg/m ³					
prosulfuron (pesticide)						94125-34-5			
proteolic enzymes (subtilisin)	-	0.00006			AP3				
pulverised fuel ash : total inhalable dust	-	10			P2				
: respirable dust	-	4			P2				
pyraflufen-ethyl (herbicide)						129630-19-9			
pyrethins (iso) (pyrethrum)	-	5			P2	8003-34-7			
pyridine (azabenzene; azine)	5	16	10	33	A	110-86-1			
pyrocatechol	5	23			AP2	120-80-9			

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP		Q						
quartz, crystalline inhalable dust	-	0.15			P3	106325-08-0		R2
quartz, containing dust	-	4			P3			
quinoline					P2	91-22-5		
quinone	0.1	0.45			AP3	106-51-4		
TOP		R						
(2RS,3RS)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-((1H-1,2,4-triazol-1-yl)-methyl)oxirane (epoxiconazole) (fungicide)	-				P3	133855-98-8 135319-73-2		
rape seed oil								
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)		1.5			P2	121-82-4		
resorcinol (m-dihydroxybenzene; 1,3-benzenediol)	10	46	20	92	AP2	108-46-3		
rhodium : metal fume and dust	-	0.1		0.3	P3	7440-16-6		
: soluble salts	-	0.001		0.003	P3			
ronnel (Fenchlorphos)	-	10			AP	299-84-3		
Rosin-based Solder Flux Fume	-	0.05		0.15	AP3	8050-09-7		
rotenone	-	5		10	P2	83-79-4		
rouge (red iron oxide; red oxide) : total inhalable dust	-	10			P2	1309-37-1		
: respirable dust	-	4			P2			
a-roundup Insecticide (glyphosate)	-			-	P3	1071-83-6		
rubber fume	-	0.6			AP3			
rubber Process Dust	-	6			P3			
rubber solvent (naphtha)					A	8030-30-6		

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	S						
safrole	-		-			94-59-7	C2
saccharose					P2	57-50-1	
sarin (GB)					BP3		
sawdust	-	5			P3		
selenium and compounds except hydrogen selenide (as Se)	-	0.1			P3	7782-49-2	
selenium hexafluoride	0.05	0.2			AP3	7783-79-1	
silane	0.5	0.67	1	1.3	Air Fed	7803-62-5	
silica, amorphous : total inhalable dust	-	6			P2		
: respirable dust	-	2.4			P2		
silica, crystalline respirable dust *	-	0.1			P3		
silica, fused : respirable dust	-	0.08			P3	60676-62-5	
silicone oil						63148-62-9	
silicon : total inhalable dust	-	10			P2	7440-21-3	
: respirable dust	-	4			P2		
silicon carbide (carborundum) : total inhalable dust	-	10			P2	409-21-2	
: respirable dust	-	4			P2		
silicon tetrachloride					Air Fed	10026-04-7	
silicon tetrahydride (silane)					Air fed	7803-62-5	
siltic acid					P3		
silver compounds (as Ag)	-	0.01			P3	7440-22-4	
silver, (metallic)	-	0.1			P3	7440-22-4	
silvernitate		0.01			P3	7761-88-8	
Simazine (herbicide)						122-34-9	

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CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category		
	ppm	mg/m ³	ppm	mg/m ³					
soapstone (steatite) : total inhalable dust	-	6			P2				
: respirable dust	-	3			P2	5968-11-6			
soda ash (sodium carbonate)	-		-		P2	497-19-8			
sodium 2-(2,4 dichlorophenoxy)ethyl sulphate (Crag herbicide)	-	10		20	P2	136-78-7			
sodium acetate (acetic acid; sodium salt)	10	25			BP2	127-09-3			
sodium acid sulphate	-		-		EP2	7681-38-1			
sodium azide (as NaN ₃) (hydrazoic acid)	-	0.1		0.3	P3	26628-22-8			
sodium bisulphate (sodium acid sulphate; sodium hydrogen sulphate)	-		-		EP2	7681-38-1			
sodium bisulfite (sodium hydrogen bisulphite)	-	5			EP2	7631-90-5			
sodium carbonate (Hydrogen carbonate)	-		-		P2	5968-11-6			
Sodium chlorate					P2	7775-09-9			
sodium chlorite	-		-		P3	7758-19-2			
sodium chromate					P3	7775-11-3	C2	M2	R2
sodium dichromate, anhydrate						10588-01-9	C2	M2	R2
sodium dichromate, dihydrate						7789-12-0	C2	M2	R2
sodium dioxide (sodium peroxide)						1313-60-6			
sodium fluoride (Sodium Hydride; floridine)	-	2.5			P2	7681-49-4			
sodium fluoroacetate (1080)	-	0.05			P3	62-74-8			
sodium hydrogen sulphite (sodium bi-sulphite)	-	5			P2	7775-14-6			
sodium hydroxide (Caustic soda)	-			2	P2	1310-73-2			
sodium hypochlorite (Bleach; Milton; Chlorax)	-		-		BP2	7681-52-9			
sodium metabisulfite (disodium di-sulphate)	-	5			P2	7681-57-4			
sodium nitrate					P3	7631-99-4			
sodium nitrite					P3	7632-00-0			
sodium persulphate	-	1			P2	7775-27-1			
sodium polyphosphate (sodium pyrophosphate)	-	5			P2	7722-88-5			

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	ppm	mg/m ³	ppm	mg/m ³			
sodium sulphite (sodium sulfite; disodium sulphite)	-		-		P	7757-83-7	
Softwood dust *	-	5			P3		
Solder (Rosin-based) flux fumes	-	0.05			BP2		
Solvents (in general)	-		-		A		
soman (GD)(3-(fluoro-methyl-phosphoryl)oxy-2,2-dimethylbutane)	-		-		BP3		
special purpose fibres (SPF)				1f/ml/8hr	P3		
Starch: total inhalable dust	-	10			P2	9005-25-8	
: respirable dust	-	4			P2		
stearic acid (octadecanoic acid)	-		-		AP	57-11-4	
stibine					Air Fed	7803-52-3	
Stoddard Solvent (dry cleaning safety solvent)	100	575			A	8052-41-3 64742-82-1	
strontium chromate					P3	7789-06-2	C2
strychnine	-	0.15			P3	57-24-9	
styrene monomer (phenylethylene; vinyl benzene)	100	430	250	1,080	AP3	100-45-5	
styrene*	100	430	250	1,080	A	100-42-5	
styrene oxide; (epoxyethyl) benzene; phenyloxirane						96-09-3	C2
subtilisins (proteolytic enzymes as 100% pure crystalline enzyme)	-	0.00004			P3	1395-21-7	
succinic anhydride (Succinic Acid)	-		-		P2	108-30-5	
sucrose (table sugar; saccharose)	-	10		20	P2	57-50-1	
sulfallate, 2-chlorallyldiethyldithiocarbamate						95-06-7	C2
Sulfosulfuron (pesticide)						141776-32-1	
sulfotep (tetraethyldithiopyrophosphate, TEDP)	-	0.1			AP2	3689-24-5	
sulphur compounds (burning)	-		-		EP2		
Sulphural difluoride	5	21	10	42	BP	2699-79-8	
sulphur dioxide	2	5.3			E	7446-09-5	

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	ppm	mg/m ³	ppm	mg/m ³			
sulphur fluoride					<i>Air Fed</i>	2551-62-4	
sulphur hexafluoride	1,000	6,070	1,250	7,590	<i>Air Fed</i>	2551-62-4	
sulphur monochloride (disulphur dichloride)			1	5.6	BP2	10025-67-9	
sulphur pentafluoride (disulphur decafluoride)	0.025	0.26			B	5714-22-7	
Sulphur tetrafluoride					<i>Air Fed</i>	7783-60-0	
sulphuric acid (oil of vitriol; hydrogen sulphate; battery acid)	-	1			EP3	7664-93-9	
sulphuric chlorohydrin (chlorosulphuric acid)	-	1			EP2	7790-94-5	
sulphuryl chloride	-		-		B	7791-25-5	
sulphuryl difluoride					<i>Air Fed</i>	2699-79-8	
sulphuryl fluoride					<i>Air Fed</i>	2699-79-8	
synthetic vitreous fibres (glass wool; rock wool; slag wool)				1 fibre/cc	P3		
synthetic motor oil					AP2		
systox (demeton)	0.01	0.1			ABP3	8065-48-3	

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	ppm	mg/m ³	ppm	mg/m ³			

TOP	<i>T</i>						
0,0,0',0'-tetraethyl dithio-pyrophosphate (Sulfotep(iso))		0.20			ABP3	3689-24-5	
0,0,0',0'-tetraethyl pyrophosphate (TEPP)		0.05			AP3	107-49-3	
1,1,1-trichloroethane (Methyl Chloroform)	100	555	200	1,110	A	71-55-6	
1,1,1-trichlorobis(4-chlorophenyl)ethane	-	1			P2	50-29-3	
1,1,1,2-tetrachloro-2,2-difluoroethane	100	847			A	76-11-9	
1,1,1,2-tetrafluoroethane (HFC 134a)	1,000	4,240			Air Fed	811-97-12	
1,1,2,2-tetrabromoethane	0.5	7.2			A	79-27-6	
1,1,2,2-tetrachloro-1,2-difluoroethane	100	847			A	76-12-0	
1,1,2,2-tetrachloroethane	10	45			A	79-34-5	
1,1,2-trichloroethane	350	1900			A	79-00-5	
1,2,3-trichloropropane	50	306			A	96-18-4	C2 R2
1,1,2-trichlorotrifluoroethane					Air Fed	76-13-1	
1,2,4-trichlorobenzene	1.0		5		A	120-82-1	
1,2,3-trimethylbenzene	25	125			AP2	526-73-8	
1,2,4-trimethylbenzene	25	125			AP2	95-63-6	
1,3,5-trimethylbenzene (mesitylene)	25	125			AP2	108-67-8	
1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio) phthalimide		0.1			AP	2425-06-1	C2
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione; TGIC						2451-62-9	M2
1,4,7-tri-(aza)-heptane	1.0		-		A		
2,4,5-T (ISO) (2,4,5-trichlorophenoxyacetic acid)	-	10			P2	93-76-5	
2,4,5-trimethylaniline						131-17-7	C2
2,2,5-trimethylaniline hydrochloride						21436-97-5	C2
2,4,6-trinitrophenol, see picric acid	-	0.1			P3	88-89-1	
2,4,6-trinitrotoluene (TNT)	-	0.5			AP3	118-96-7	

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	ppm	mg/m ³	ppm	mg/m ³			
2,4,5,6-tetrachloroisophthalonitrile					AP3	1897-45-6	
3a,4,7,7a-tetrahydro-4,7-methanoindene	5	27			A	77-73-6	
3,5,5-trimethylcyclohex-2-enone			5	29	A	78-59-1	
a,a,a,,4-tetrachlorotoluene; p-chlorobenzotrichloride						5216-25-1	C2
4-o-tolylazo-o-toluidine						97-56-3	C2
4,4'-thiobis(6-tert-butyl-m-cresol)	-	10			P2	96-69-5	
4,4'-thiodianiline and its salts						139-65-1	C2
o-toluidine	0.2	0.89			AP3	95-53-4	
p-toluene sulphonyl chloride T-Gas (ethylene oxide)	-		5		AXP3	98-59-9	
tabun (GA)	-		-		BP3		
talc : respirable dust	-	1			P2	14807-96-6	
tantalum	-	5		10	P2	7440-25-7	
Tar Fumes	-		-		AP		
TDI (toluene diisocyanate) (2,4/2,6,-diisocyanate toluene					<i>Air Fed</i>	2647-62-5	
TEDP (tetraethylthiopyrophosphate)	-	0.2			ABP3	3689-24-5	
Teflon (PTFE)					AP2	9002-84-0	
tellurium & compounds except hydrogen telluride (as Te)	-	0.1			P3	1394-80-9	
tellurium hexafluoride			0.1	0.24	<i>Air Fed</i>	7783-80-4	
TEPP (tetraethylpyrophosphate) (ISO)	0.004	0.05			AP3	107-49-3	
terphenyls all isomers			0.5	4.8	AP3	26140-60-3	
tetrabromomethane	5	20			AX	558-13-4	
tetracarbonylnickel (as Ni					<i>Air Fed</i>	13463-39-3	
tetrachloroethane	1	7			AP3	127-18-4	
tetrachloroethylene	50	345	100	689	A	127-18-4	
tetrachloroisophthalonitrile					AP3	1897-45-6	

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tetrachloromethane (carbon tetrachloride)	2	13			A	56-23-5			
tetrachloronaphthalene, all isomers	-	2			AP2	1335-88-2			
tetraethyl lead	0.01	0.075			AP3	78-00-2			
tetraethyl orthosilicate	10	87			A	78-10-4			
tetrafluorodichloroethane (cryofluorane)					<i>Air Fed</i>	76-14-2			
tetrahydrofuran (diethylene oxide; tetramethylene oxide)	50	150	100	300	A	109-99-9			
(+/-)tetrahydrofurfural @-2-(4-(6-chloro-quinoxalin-2-yloxy)phenoxy)propionate						119738-06-6			R2
tetrahydrothiophene (tetramethylene sulphide)	-		-		BP	110-01-0			
tetrahydrothiopyran-3-carboxaldehyde						61571-06-0			R2
tetramethyl lead	0.01	0.075			AP3	75-74-1			
N,N,N',N'-tetramethyldiamine						101-61-1	C2		
tetramethyl orthosilicate	1	6.3			A	681-84-5			
tetramethyl succinonitrile	0.5	2.8			AP2	3333-52-6			
tetramethylene sulphide	-		-		BP				
tetranitromethane	1	8			BP3	509-14-8			
tetrasodium pyrophosphate (sodium pyrophosphate; sodium polyphosphate)	-	5			P2	7722-88-5			
tetryl (2,4,6-trinitro-phenyl-methylnitramine, nitramine)	-	1.5			P2	479-45-8			
TGIC						2451-62-9			M2
thallium (soluble compounds) (as Ti)	-	0.1			P3	7440-28-0			
thioacetamide						62-55-5	C2		
thioglycolic acid (mercaptoacetic acid)	1	3.8			AP2	68-11-1			
thiokol	-		-		A	68611-50-7			
thionyl chloride			1	4.9	BP2	7719-09-7			
thiram (ISO)	-	5			P2	137-26-8			
Tin, Compounds (Inorganic except SnH4) (as Sn)	-	2		4	P2	7440-31-5			

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Tin, Compounds (Organic except cyhexatin ISO) (as Sn)	-	0.1		0.2	P2		
titanium dioxide(rutile; anatase; brookite): respirable dust	-	4			P2	13463-67-7	
: total inhalable dust	-	10			P2		
titanium tetrachloride	-		-		BP2	7550-45-0	
o-tolidine					P3	119-93-7	C2
salts of o-tolidine					AP3	119-93-7	C2
o-toluidine (3,3-dimethylbenzidine)	0.2	0.89			AP3	95-53-4	C2
m-toluidine	0.2	0.89			AP3	108-44-1	
p-toluidine	0.2	0.89			AP3	106-49-0	
toluene-2,4-diammonium sulphate					A	65321-67-7	C2
toluene-2,4-diisocyanate(TDI)					AIR FED	584-84-9	C3
toluene (toluol; phenyl methane; methyl benzene)	50	191	100	384	A	108-88-3	
toluene-2,6-diisocyanate					Air Fed	91-08-7	
toluene-di-isocyanate						26471-62-5	C3
toluenesulphonic acid	-		-		P2	104-15-4	
p-toluenesulphonyl chloride	-			5	P3	98-59-9	
toxaphene, see chlorinated camphene (insecticide)	-	0.5			AP2	8001-35-2	
triazine (herbicide)					P2/3	12654-97-6	
tribromomethane	0.5	5.3			A	75-25-2	
tributyl phosphate, all isomers	-	5		5	AP2	126-73-8	
Tricarbonyl (methyl-cyclopentadienyl)manganese (as Mn)					Air Fed	12108-13-3	
tricarbonyl(methylcyclo-pentadienyl)manganese (as Mn)					Air Fed	12108-13-3	
trichloroacetic acid (TCA)	-		-		P2	76-03-9	
trichloroethane	200	1,110			AP	75-55-6	
trichloroethylene* (Trike; ethylene trichloride) (trichloroethene)	100	550	150	820	A	79-01-6	C2

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trichlorofluoromethane					<i>Air Fed</i>	75-69-4	
trichloromethane (chloroform)	2	9.9			AX	67-66-3	
trichloronaphthalene (hallowax; seekay wax; nibrenwax)	-	5			AP2	1321-65-9	
trichloronitromethane (chloropicrin)	0.1	0.68	0.3	2.1	<i>Air Fed</i>	76-06-2	
trichloropropane	50	306			AP2	96-18-4	
<i>a,a,a</i> -trichlorotoluene (benzotrichloride)	-		-		AEP2	98-07-7	C2
triclopyr (herbicide)					AP2	55335-06-3	
tricyclohexyltin hydroxide (cyhexatin)	-	5			AP	13121-70-5	
tridymite*(Siica, crystalline) * : respirable dust	-	0.3			P3	14808-60-7	
trietazine (herbicide)					P2/3	1912-26-1	
tridemorph (ISO)						24602-86-6	R2
triethanolamine					AP	102-71-6	
triethoxyoxysilane					A	998-30-1	
triethylamine	2	8	4	17	A	121-44-8	
triethyl arsenate						15606-95-8	C1
triethylene glycol dimethyl ether ; TEGDME: triglyme						112-49-2	R2
Triethelene tetraamine					A	112-24-3	
trifluoroamine (nitrogen fluoride; nitrogen trifluoride)	10	30			BP	7783-54-2	
Triflorine (fungicide)					P3	26644-46-2	
trifluorobromomethane (bromotrifluoromethane)					<i>Air Fed</i>	75-63-8	
triglycidyl isocyanurate (TGIC)	-	0.1			P3	2451-62-9	
triglyme						112-49-2	R2
trilead bis(orthophosphate)					P3	7446-27-7	R1
trimanganese Tetroxide	-	1			P2	1317-35-7	
trimellitic anhydride* (Benzene-1,2,4-tricarboxylic acid, 1,2-anhydride)	-	0.04		0.12	P3	552-30-7	

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Trimethoxy(2-methylpropyl)silane					AP	2487-90-3	
trimethyl phosphite (phosphorus acid, trimethyl ester)	2	10			BP2	121-45-9	
trimethylamine	10	25			K	75-50-3	
trimethylbenzene, all isomers or mixtures	25	125			AP2	25377-32-6	
trinitrobenzene	-		-		AP2	25377-32-6	
triorthocresyl phosphate (TCP; TOCP; tricresylphosphate)	-		-		P3	78-30-8	
tri-o-cresyl phosphate (tri-o-tolylphosphate)	-	0.1			AP3	78-30-8	
tri-o-tolylphosphate	-	0.1		0.3	AP3	78-30-8	
triphenyl phosphate (phenyl phosphate, TPP)	-	3		6	P2	115-86-6	
triphenylamine	-		-		AP2	603-34-9	
tripoli* (silica, crystalline) : respirable dust	-	0.3			P3	1317-95-9	
tungsten & compounds (as W) : soluble	-	1		3	P2	7440-33-7	
: insoluble	-	5		10	P2		
turpentine oil	100	566	150	850	A	8006-64-2	

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TOP	<i>U</i>							
uranium compounds, natural, soluble (as U)	-	0.2			P3	7440-61-1		
uranium trichloride	-	0.2			P3	10025-93-1		
urethane (INN)	-		-		AP3	51-79-6	C2	
n-undecane	-		-		AP2	1120-21-4		
Used engine oil	-		-		AKP2			
Urea (carbamide resin, carbonyl diamine, carbonyl diamide, isourea) (fertiliser)		10			KP3	57-13-6		
urine								

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TOP	V						
2-vinyltoluene (methylstyrenes)	100	491			A	611-15-4	
4-vinylcyclohexene dioxide	10	60			AP3	106-63-8 106-87-6 25550-49-6	
valeraldehyde	-		-		A	110-62-3	
valeric acid	-		-		A	109-52-4	
vanadium oxide fume	-	0.05			P3	1314-62-1	
vanadium pentoxide * : total inhalable dust	-	0.5			P3	1314-62-1	
: fume & respirable dust	-	0.04			P3		
vinclozolin (ISO); N-3,5-dichlorophenyl-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione						50471-44-8	R2
vinegar							
vinyl acetate	10	36			A	108-05-4	
vinyl benzene* (Styrene; phenyl ethylene)	100	430			A	100-45-5	
vinyl bromide	5	20			AP3	593-60-2	
vinyl chloride*	3		-		AX	75-01-4	C1
vinyl cyclohexane						100-40-3	
vinyl cyclohexane dioxide	10	60			AP3	106-87-6	
vinyl ethylene (1,3-butadiene; divinyl; biethylene; erthrene)	1		-		AX	106-99-0	
vinyl fluoride						75-02-5	
n-vinyl pyrrolidone	-		-		AP	88-12-0	
vinyl styrene (divinyl benzene; DVB)	10	54			AP	1321-74-0	
vinyl toluene (methylstyrenes)	100	491			AP	25013-15-4	
vinylidene chloride* (1,1-dichloroethylene)	10	40			AX	75-34-410	

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	ppm	mg/m ³	ppm	mg/m ³					
vinyliden fluoride						75-38-7			
VM & P naphtha	-		-		A	8030-36-6 8031-06-9 8032-32-4 64742-89-8			
TOP	<i>W</i>								
warfarin (ISO): 4-hydroxy-3-(3-oxo-1-phenylbutyl)coumarin	-	0.1			P3	81-81-2			R1
welding fume	-	5			P3				
white spirit type 0 (distillation fraction)	100	575			A	64742-88-7			
white spirit type 1 (stoddart solvent) (3 grades L/R/H flash)	100	575			AP2	64742-82-1			
white spirit type 2 (solvent extraction) (3 grades L/R/H flash)	100	575			A	64741-92-0			
white spirit type 3 (hydrogenation) (3 grades L/R/H flash)	100	575			A	64742-48-9			
wood dust*	-	5			P3				
wood oil	-		-		P				
wool process dust *	-	10			P2/3				
TOP	<i>X</i>								
xenene (biphenyl: diphenyl: bibenzene: phenyl benzene; PHPH)	0.2	1.3			AP	92-52-4			
xenylamine	0.2	1.3			P3	92-67-1	C1		
<i>m</i> -Xylene (1,3-dimethylbenzene)	50	220	100	441	A	108-38-3			
<i>o</i> -Xylene (1,2-dimethylbenzene)	50	220	100	441	A	95-76-6			
<i>p</i> -Xylene (1,4-dimethylbenzene)	50	220	100	441	A	106-42-3			
Xylene (Xylol)	50	220	100	441	A	1330-20-7			
Xylenol (2,4-xylenol, 2,4-dimethylphenol)	-		-		AP2	1300-71-6			
Xylidene, all isomers (Aminodimethylbenzene)	2	10			AKP2	1300-73-8			

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FILTER SELECTION GUIDE

Scroll Down These Pages Until You Find The Chemical/s You Are Looking For

CHEMICAL NAME	WEL Long Term Exp 8 hour TWA		WEL Short Term Exp 15 min Ref. Period		FILTER	CAS no.	Category
	ppm	mg/m ³	ppm	mg/m ³			

TOP	Y						
yttrium	-	1		3	P2	7440-65-5	
TOP	Z						
zinc	-				P2	7440-66-6	
zinc berylliumsilicate					P3	1350-65-9 11103-86-9 37300-23-5 39413-47-3	
zinc chloride, fume	-	1		2	P3	7646-85-7	
zinc chromate (as Cr)(including zinc potassium chromate)	-	0.5			P3	13530-65-9	C1
zinc distearate : total inhalable dust	-	10		20	P2	7440-66-6	
: respirable dust	-	4			P		
zinc oxide : fume	-	5			P3	1314-13-2	
: dust	-	10			P2		
zinc phosphate	-			-		7779-90-0	
zinc phosphide	-			-	P2	1314-84-7	
zinc stearate (synpro stearate; dermatone) : respirable dust	-	4			P2	557-05-1	
: total inhalable dust	-	10			P2		
zinc sulphate	-			-	P2	7466-20-0	
zirconium compounds (as Zr)	-	5		10	P2	7440-67-7	
zirconium chloride	-	5		10	P2	10026-11-6	
zirconium hydroxide	-	5		10	P2	12688-15-2 14475-63-9	
zirconium oxide	-	5		10	P2	1314-23-4	
zirconium silicate	-	5		10	P2	10101-52-7	
zirconium sulphate	-	5		10	P2	7446-31-3	
zyklon	-			-	B		

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